

CALIFORNIA INSTITUTE OF TECHNOLOGY
EARTHQUAKE ENGINEERING RESEARCH LABORATORY

ANALYSES OF
STRONG MOTION EARTHQUAKE ACCELEROGRAMS

Volume III - Response Spectra
Part U - Accelerograms IU294 through IU313

Report No. EERL 75-81

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ABSTRACT

This is one of a series of reports presenting earthquake response spectrum curves calculated from corrected accelerograms. In the preface to the first part, Volume III, Part A, Report No. EERL 72-80, there is a summary of response spectrum techniques in earthquake engineering which is available as background material for the data. For each earthquake accelerogram, two spectrum plots are given - relative velocity response versus period on a linear scale, and a tripartite log-log plot giving relative displacement, pseudo-velocity, and pseudo-acceleration spectra. The Fourier spectrum is also shown on the linear plot. Digital printout of ordinates of the plotted curves are tabulated for each earthquake. The records analyzed in this report, Volume III, Part U, are the corrected accelerogram records contained in Volume II, Part U, Report No. EERL 75-51, and appeared in their uncorrected form in Volume I, Part U, Report No. EERL 73-26.

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PREFACE TO VOLUME III, PART U

This report, Volume III, Part U, Report No. EERL 75-81, is part of the Volume III series presenting earthquake response spectrum curves calculated from corrected accelerograms. This issue contains data from Western United States stations which recorded strong ground motion during the years 1934 to 1967. The records are included here in chronological order, and the following series of records are of particular importance.

The Ferndale, California, site provided records in 1934, 1937, 1960 and 1967, in addition to those records already appearing in Parts A and B: 1938, 1941, 1951, 1952 and 1954. The Hollister, California, site is represented here with records in 1949, 1954, 1960, 1961 (at 2325 hours on April 8) and 1967, supplementing the one record appearing in Part A at 2323 hours on April 8, 1961. Although this record at 2325 hours on April 8, 1961 is from an aftershock (M 5.5) of the main shock (M 5.7) occurring two minutes earlier at 2323 hours, nonetheless it has been included in many of the statistical investigations which have had, as basic data, the entire set of records in this digitizing and analysis project. In these instances, both records have been assigned to the main shock at 2323 hours.

Also included is a series of three aftershocks of the October 18, 1935 Helena, Montana, earthquake recorded at the Federal Building in Helena on October 31 at 1218 hours, November 21 and November 28. Already appearing in Part B was the second largest shock, on October 31 at 1138 hours. There was no accelerograph in Helena for

the main shock on October 18, but the next day the United States Coast and Geodetic Survey sent an accelerograph and a vibration meter from California to Helena with a strong-motion party under F. P. Ulrich. This accelerograph provided the above set of records.

Another set of aftershocks was recorded at the Fire House, in Tehachapi, California, following the Taft earthquake of July 21, 1952. These were labeled on the original records as the 1st, 2nd and 5th aftershocks, occurring in the time period July 23 to July 31, 1952. No detailed times were available.

Other records in this issue include Santa Barbara (1941), the 13th floor of the Bank of America Building, San Jose, California (1955), the basement record having appeared in Part A, Reference Number IA010, Seattle (Washington) (1965), and Taft, California (1966).

NOTES ON THE VOLUME III SERIES

Description of the Four Volumes of the Project. The series of reports in Volume I present "uncorrected" digitized and plotted strong-motion earthquake accelerograph data, while the series in Volume II present corrected digitized data prepared so that the maximum information over the widest practicable frequency range would be available. The corrections include long period filtering ensuring to the greatest extent possible a uniform type of baseline adjustment and an instrument correction to account for the high frequency response characteristics of the accelerograph transducer.

The Volume III series presents earthquake response spectrum curves calculated from the corrected accelerograms of Volume II. A brief introduction to response spectrum techniques as they are commonly applied in the earthquake engineering field appeared in Volume III, Part A, Report No. 72-80, and this may be referred to by those users who need more explanatory remarks than appear in the following.

The Volume IV series contains Fourier amplitude spectra calculated by the Fast Fourier Transform algorithm.

Contents of the Various Parts. Part A of Volume III contained the response spectra analysis for the corrected records of Volume II, Part A, Report No. EERL 71-50. In turn, the "uncorrected" versions of these records appeared in Part A of Volume I. This arrangement has been maintained in all subsequent parts. In Part C of Volume III, Report No. EERL 73-81, we began the presentation of response spectra

analysis for the unusually important series of accelerograms obtained during the San Fernando earthquake of February 9, 1971.

Part S contains the last of the San Fernando records. In Part T a return is made to those records received during the years 1933 to 1968, which continue into Parts U and V. Parts W and X contain the records from the Lytle Creek, California, earthquake of Sept. 12, 1970, and Part Y contains the records of the Borrego Mountain, California, earthquake of April 8, 1968, not already included in Parts A and B. Part Y marks the conclusion of the current digitizing and analysis project.

Component Directions. A description of the component direction nomenclature for the records was given in Volume II, Part B, Report No. EERL 72-50. Consistent with this, the component direction where it appears in this report refers to the direction of the transducer pendulum motion for the trace to be deflected "up" on the record when viewed in the normal way with time increasing from left to right. The direction of true ground acceleration is opposite to this pendulum motion. The spectral calculations of Volume III are concerned with absolute values of the response and the particular component sense in this report is thus immaterial.

Assessment of Long Period Errors. A separate section in Volume II, Part G, Report No. EERL 73-52, entitled "Current Assessment of Long Period Errors" describes the results of a recent investigation of long period displacements calculated from recorded accelerations. During the course of this study it became evident that the procedures for preparation of 70-mm and, to a lesser extent,

35-mm film records from the San Fernando earthquake of February 9, 1971, introduced spurious excitations at periods close to the duration of the sectional enlargements. These effects have been removed from all of the 70- and 35-mm film records by filtering with a long period limit of 8 seconds rather than the standard cut-off period of 16 seconds in the Volume II correction procedure. The following list of Caltech reference numbers indicates the records from the San Fernando earthquake included in Volume I, Parts C through S, that have been processed with the cut-off period of 8 seconds:

Parts G, H, I: All records in these parts.

Part J: Records J142, J145 through J150.

Part K: All records.

Part L: Records L166, L167, L168; L172 through L175.

Part M: Records M176, M177, M178; M180 through M184.

Part N: All records.

Part O: Records O198 through O201; O206, O208, O210.

Part P: Records P231 and P232.

Parts Q, R, S: All records in these parts.

A decision was also made at the same time to eliminate a number of very low amplitude accelerograms from further processing (Volume II, III, and IV), reflecting the expectation that the resulting displacement records will be dominated by noise. Their Caltech reference numbers are as follows:

H127; I140; J151, J152; K153 through K156; K161 through K165; O202, O203, O209, O211, O212; P224 through P230.

The decision to eliminate the very low amplitude accelerograms of the San Fernando earthquake detailed above was extended to include the more distant records of the Lytle Creek earthquake, Sep. 12, 1970, whose uncorrected data appeared in Volume I, Part X. This entire part has been eliminated from further processing.

Description of the Figures and Tables. For each component in the following pages there are two figures showing response spectra and two pages of tables containing most of the spectral ordinates. These are described in detail in the following.

The first plot is that of the true relative velocity response spectrum, SV. The name of the earthquake, the instrument location, and the damping values appear in the descriptive titles. The first title gives the name, date, and time of occurrence of the earthquake; the second is comprised of two labels, the instrument location or observation station and the particular component. The first identification label, for example IIIA001, indicates that this analysis appears in Volume III, Part A, that the processed record belongs to Volume II, Part A, containing corrected data, and that this record is the first of the complete series. This record's uncorrected data appear in Volume I, Part A, and its Fourier spectra in Volume IV, Part A. The second identification label is a record label (for instance 40.001.0), a string of three numbers separated by periods. The first number gives the year in which the earthquake appeared, the second is the serial number of the record as it was received at the Earthquake Engineering Research Laboratory during that year, and the third indicates whether it was a main event or an aftershock, sequentially numbered, the main event starting with zero.

The five continuous line plots correspond to damping values of 0, 2, 5, 10 and 20 percent of critical, and these curves will usually be easily distinguishable, with the zero damped curve having the greatest ordinates. The dashed curve on this plot is the Fourier amplitude spectrum, FS, calculated at the same periods as for the relative velocity response spectra. The ordinates for the spectra are in units of in/sec, in accordance with past engineering practice, while the scale is chosen to fill the available space. The periods extend to 15 seconds, or 8 seconds, as the case may be, close to the long period cut-off point in the corrected data of Volume II, but the axis is divided into two linear portions. From 0 to 3 seconds takes up three-quarters of the axis, and from 3 to 15 seconds takes up the remainder.

The second plot is that of the pseudo velocity response spectrum, PSV, together with the relative displacement spectrum, SD, and the pseudo acceleration spectrum, PSA, in the tripartite logarithmic plot versus period. This convenient plot is made possible by the relationships between PSV, SD, and PSA detailed in Volume III, Part A, Report No. EERL 72-80. The units are, once again, the engineering units of in/sec, in, and g, respectively. The descriptive titles are the same as on the true relative velocity spectrum.

The two pages of tables contain values of the ordinates for the previous plots. After the titles there are arranged, in columns, the periods (PER), Fourier amplitude spectrum (FS), and then sets of four columns containing SD, SV, SA, and PSV for all of the five damping values. The units are indicated and each value is followed by a multiplicative power of 10, e.g., 432-1 represents a value of 43.2.

The ordinates are also stored on computer cards containing the Fourier amplitude spectrum and, for all of the five damping values, the pseudo velocity and relative velocity response spectra. A simplified economic format, 13F6.3, is made possible by using the logarithms of these spectra. The last two columns are for identification purposes. These cards are available on request from the National Information Service for Earthquake Engineering at the California Institute of Technology.

Inclusion of Spectra of Upper Story Records. The earthquake response spectrum was originally introduced as a means of characterizing the response of structures to the exciting ground motion, and hence such spectra are usually calculated from ground motions themselves. There are many instances, however, in which a structural motion is the excitation, for example, of mechanical equipment or other objects attached at upper story locations in buildings. In such cases it may be useful to calculate a response spectrum based on an acceleration-time function which is in itself a response to the earthquake ground motion. Such response spectra of structural motions will ordinarily contain predominant peaks corresponding to structural frequencies and will consequently appear very different from ground spectra.

A number of accelerograms have been obtained from instruments located in upper floors of buildings, and it has been decided to include response spectra computed from these structural responses in the same form as the ground spectra. Such building spectra will be useful in estimating the response of equipment and contents to building motions

excited by earthquakes. The reader is cautioned to keep this point in mind and to avoid such building spectra when studying the characteristics of the ground motion itself.

Numbering of EERL Reports. The system for the EERL-numbering of the reports is based on two numbers, one indicating the year of preparation, and the second indicating the volume to which the report belongs. A detailed description follows.

For the Volume I reports, the first number indicates the year in which the particular data was first prepared for either a report or for loading onto magnetic tape. This number ranges from 70 to 73. The first printing of Volume I, Part A, appeared before the numbering system was chosen. Although it was dated July, 1969, it actually did not appear until 1970, and was consequently numbered EERL 70-20 in subsequent printings. For the reports of Volumes II, III, and IV, the first number indicates the year in which the report was prepared, and ranges from 70 to 75.

The second number increases consecutively with each report, restarting at 20 each year in the case of Volume I reports, at 50 for Volume II, at 80 for Volume III, and at 100 for Volume IV. For example, Volume II, Part G, Report No. EERL 73-52, was prepared in 1973 and was the third report of the Volume II series to be published that year. The numbers from 01 to 19 each year are reserved for other publications of the Earthquake Engineering Research Laboratory, such as thesis reports and special reports.

Acknowledgments. The cooperative efforts of many people are essential in the preparation of a series of reports of this kind

and we have been fortunate in the quality of staff that has carried out the various details with special care and attention. We should like to express our appreciation to Mr. Vincent Lee for his assistance with many details of computer programming, to Miss Barbara Turner and Miss Sharon Vedrode for the care taken with typing and editing, to the staff of the Willis H. Booth Computing Center for their continued help with all aspects of the computing process, and to the staff of the Caltech Graphic Arts Facilities for very efficient work on publication details. The whole project has been made possible by the continued support of the National Science Foundation, supplemented in an important way by contributions from the Earthquake Research Affiliates Program of the California Institute of Technology.

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EARTHQUAKE DATA

Location	Date	Time	Lat. (N)	Long. (E)	Depth* (km)	Mag.	Maximum Intensity
Eureka, Calif.	7.06.34	1449 PST	41°42'00"	-124°36'00"	-	-	5
Helena, Mont. (Aftershock)	10.31.35	1218 MST	46°37'00"	-111°58'00"	-	-	3
Helena, Mont. (Aftershock)	11.21.35	2058 MST	46°36'00"	-112°00'00"	-	-	6
Helena, Mont. (Aftershock)	11.28.35	0742 MST	46°37'00"	-111°58'00"	-	-	6
Humboldt Bay, Cal.	2.06.37	2042 PST	40°30'00"	-125°15'00"	-	-	5
Santa Barbara, Cal.	6.30.41	2351 PST	34°22'00"	-119°35'00"	16	5.9	8
Northern Cal.	10.03.41	0813 PST	40°36'00"	-124°36'00"	-	6.4	7
Northern Cal.	3.09.49	0429 PST	37°06'00"	-121°18'00"	-	3.5	7
Kern County, Cal. (A'shocks)	7.23.52 to 7.31.52		35°17'00"	-118°39'00"	-	-	-
Central Calif.	4.25.54	1233 PST	36°48'00"	-121°48'00"	-	5.3	7
San Jose, Calif.	9.04.55	1801 PST	37°22'00"	-121°47'00"	-	5.8	7
Central Calif.	1.19.60	1926 PST	36°47'00"	-121°26'00"	-	5.0	6
Northern Calif.	6.05.60	1718 PST	40°49'00"	-124°53'00"	-	5.7	6
Hollister, Cal. (Aftershock)	4.08.61	2325 PST			-	5.5	-
Puget Sound, Wash.	4.29.65	0729 PST	47°24'00"	-122°18'00"	-	6.5	8
Parkfield, Cal.	6.27.66	2026 PST	35°57'18"	-120°29'54"	6.0	5.6	7
Northern Cal.	12.10.67	0407 PST	40°30'00"	-124°36'00"	-	5.8	6
Northern Cal.	12.18.67	0925 PST	37°00'36"	-121°47'18"	-	5.2	6

*The listed depth of 16 km is an estimate used for travel times in epicenter calculations (Gutenberg, 1951; Hileman et al., 1973).

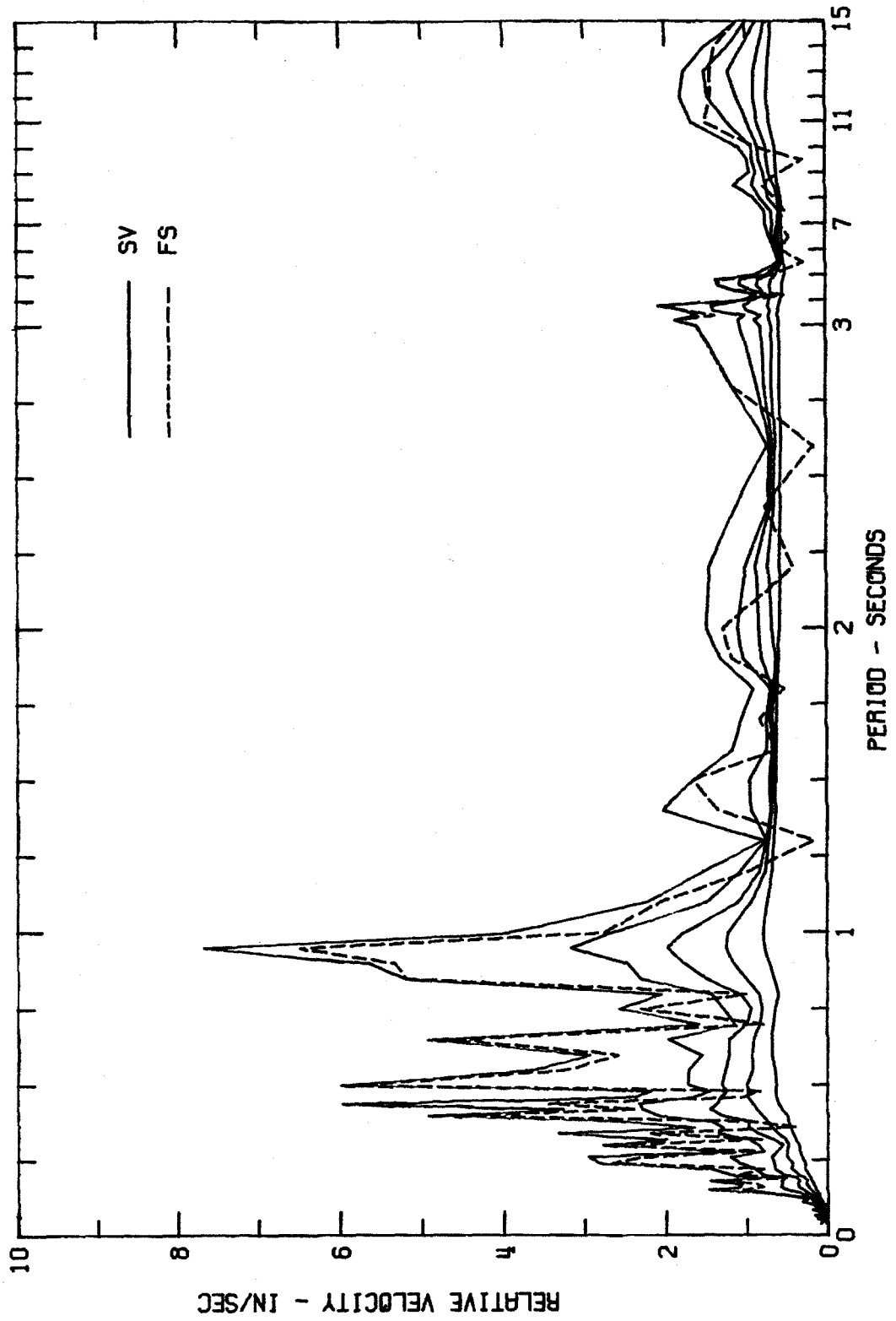
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RELATIVE VELOCITY RESPONSE SPECTRUM
EUREKA EARTHQUAKE JULY 6, 1934 - 1449 PST
111U294 34.001.0 CITY HALL, FERDALE, CALIFORNIA COMP N45W
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

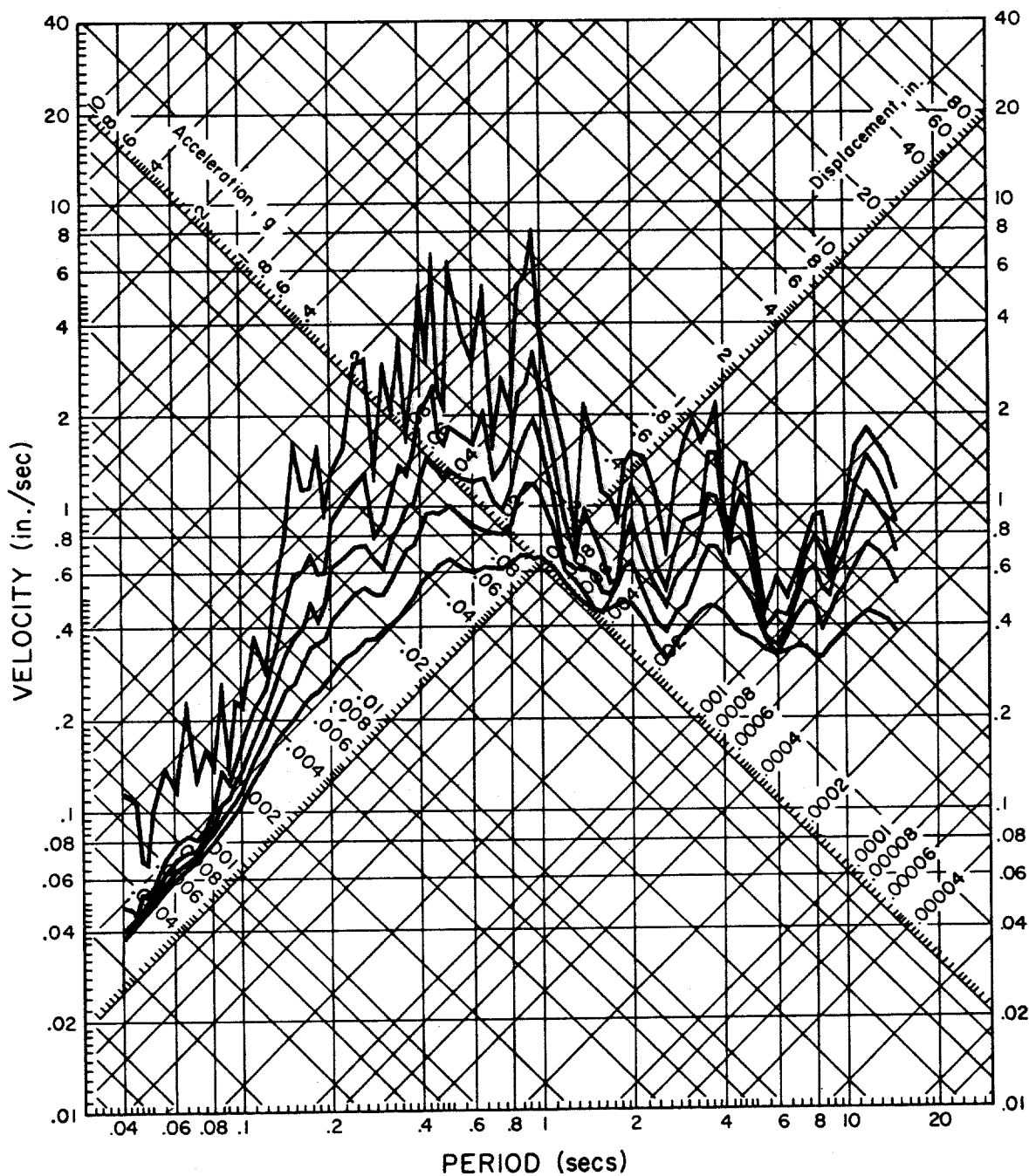


RESPONSE SPECTRUM

EUREKA EARTHQUAKE JULY 6, 1934 - 1449 PST

111U294 34.001.0 CITY HALL, FERNDALE, CALIFORNIA COMP N45W

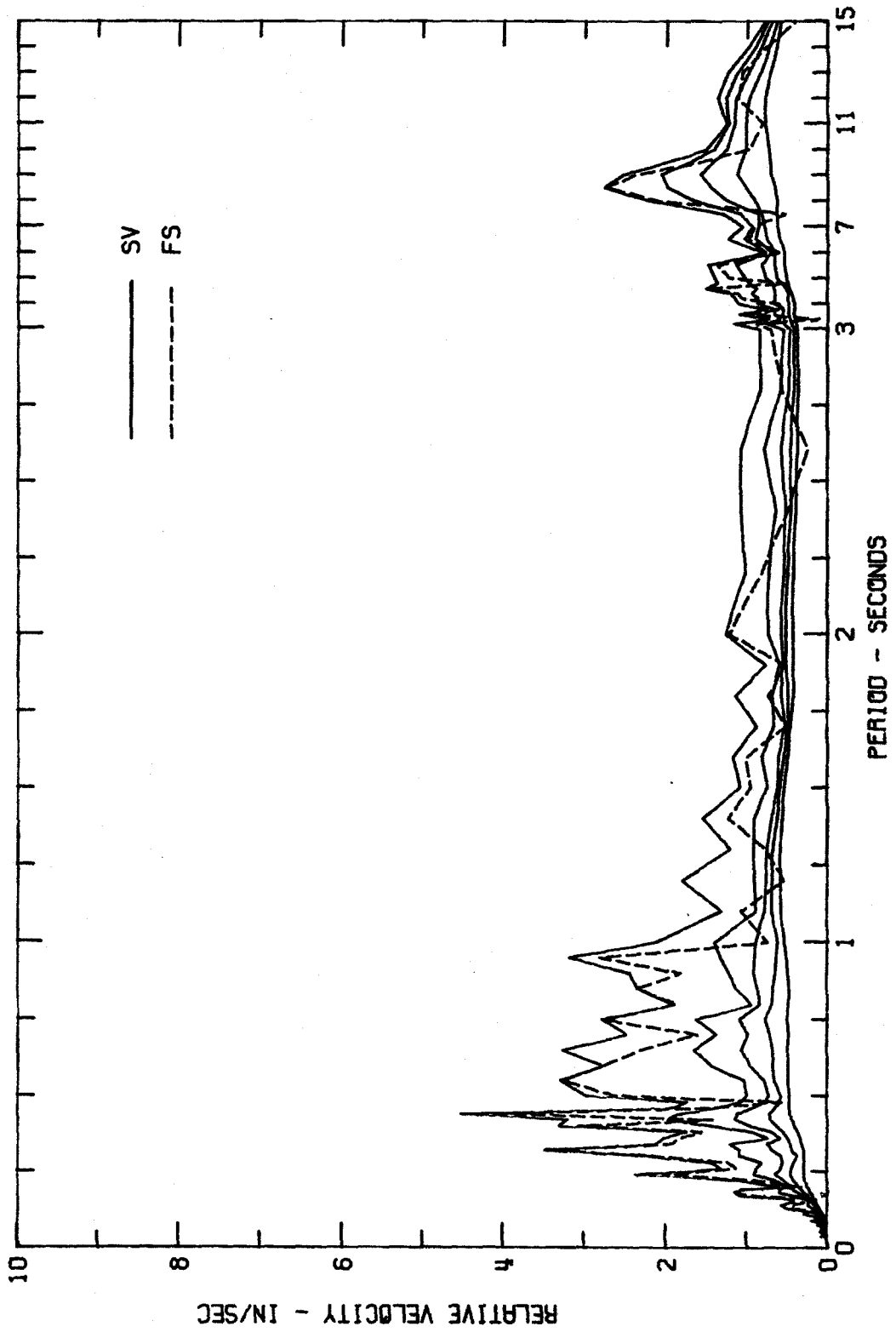
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
					DAMPING = 0 PER CENT				DAMPING = 2 PER CENT				DAMPING = 5 PER CENT				DAMPING = 10 PER CENT
																	DAMPING = 20 PER CENT
0.75	231-2	306-3	258-2	555-4	256-2	158-3	129-2	288-4	132-2	113-3	943-3	206-4	948-3	941-4	815-3	174-4	788-3
0.80	100-2	262-3	205-2	420-4	206-2	194-3	144-2	310-4	152-2	142-3	108-2	229-4	112-2	108-3	850-3	175-4	848-3
0.85	520-2	714-3	521-2	101-3	528-2	315-3	232-2	447-4	233-2	201-3	151-2	286-4	148-2	141-3	102-2	204-4	104-2
0.90	534-2	807-3	565-2	102-3	563-2	356-3	249-2	450-4	248-2	247-3	179-2	314-4	172-2	166-3	117-2	214-4	116-2
0.95	649-2	115-2	768-2	131-3	764-2	469-3	317-2	533-4	310-2	286-3	198-2	326-4	189-2	174-3	125-2	202-4	115-2
1.00	276-2	590-3	397-2	504-4	371-2	381-3	268-2	390-4	239-2	256-3	178-2	264-4	161-2	170-3	123-2	178-4	107-2
1.10	207-2	390-3	223-2	329-4	222-2	251-3	149-2	213-4	143-2	186-3	110-2	159-4	106-2	145-3	943-3	126-4	831-3
1.20	973-3	286-3	153-2	203-4	149-2	167-3	107-2	119-4	878-3	122-3	838-3	878-5	642-3	113-3	768-3	835-5	596-3
1.30	165-3	159-3	797-3	966-5	771-3	135-3	766-3	818-5	653-3	124-3	750-3	762-5	602-3	114-3	727-3	715-5	551-3
1.40	136-2	461-3	204-2	241-4	207-2	211-3	952-3	110-4	947-3	135-3	703-3	712-5	609-3	110-3	690-3	603-5	498-3
1.50	165-2	395-3	165-2	179-4	165-2	188-3	961-3	859-5	791-3	139-3	715-3	639-5	585-3	106-3	666-3	495-5	447-3
1.60	632-3	276-3	117-2	110-4	108-2	172-3	755-3	689-5	675-3	128-3	687-3	517-5	504-3	110-3	667-3	460-5	432-3
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																	368-3

RELATIVE VELOCITY RESPONSE SPECTRUM
EUREKA EARTHQUAKE JULY 6, 1934 - 1449 PST
11110294 34.001.0 CITY HALL, FERNDALE, CALIFORNIA COMP S45W
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

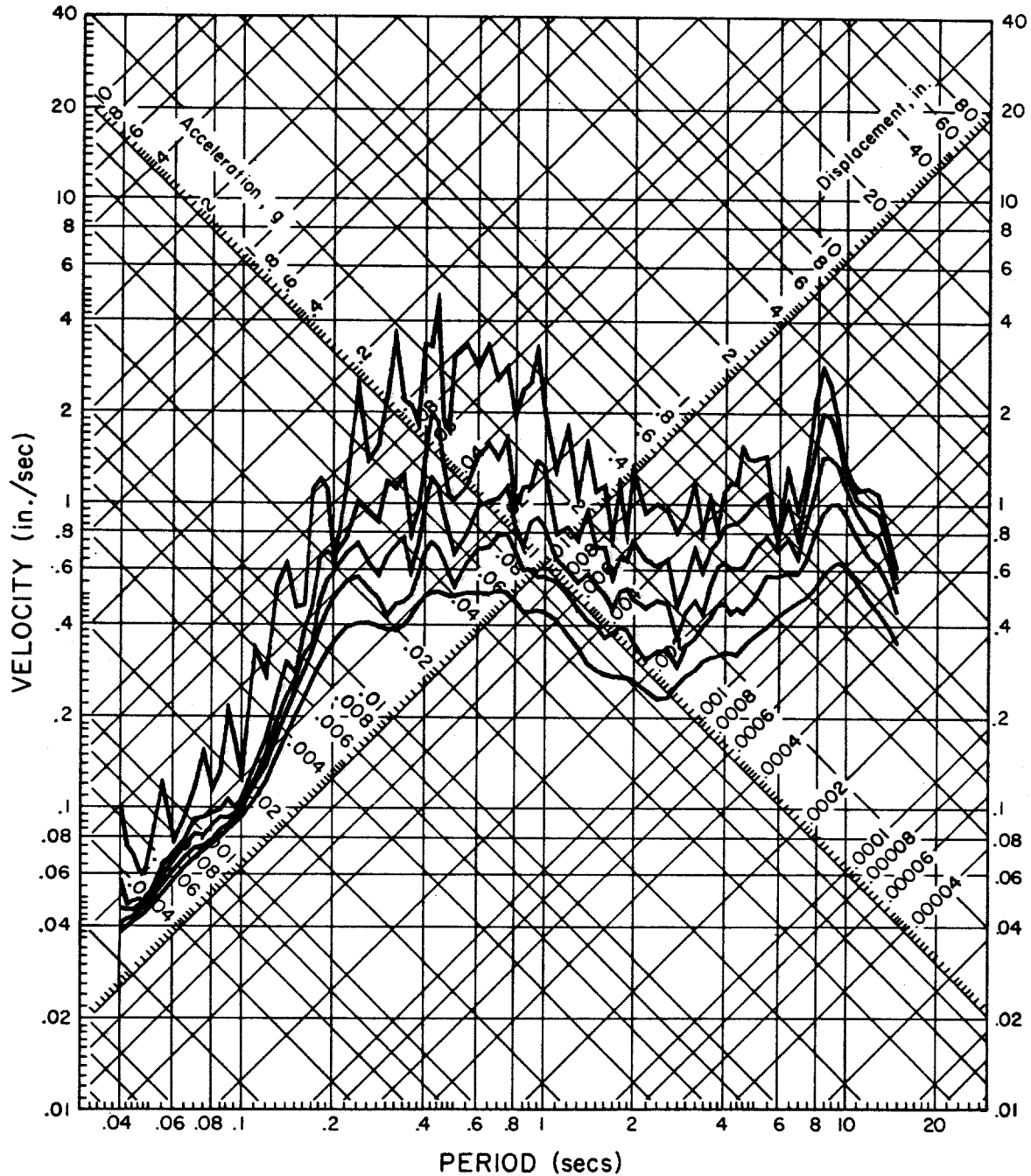


RESPONSE SPECTRUM

EUREKA EARTHQUAKE JULY 6, 1934 - 1449 PST

111U294 34.001.0 CITY HALL, FERNDALE, CALIFORNIA COMP S45H

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

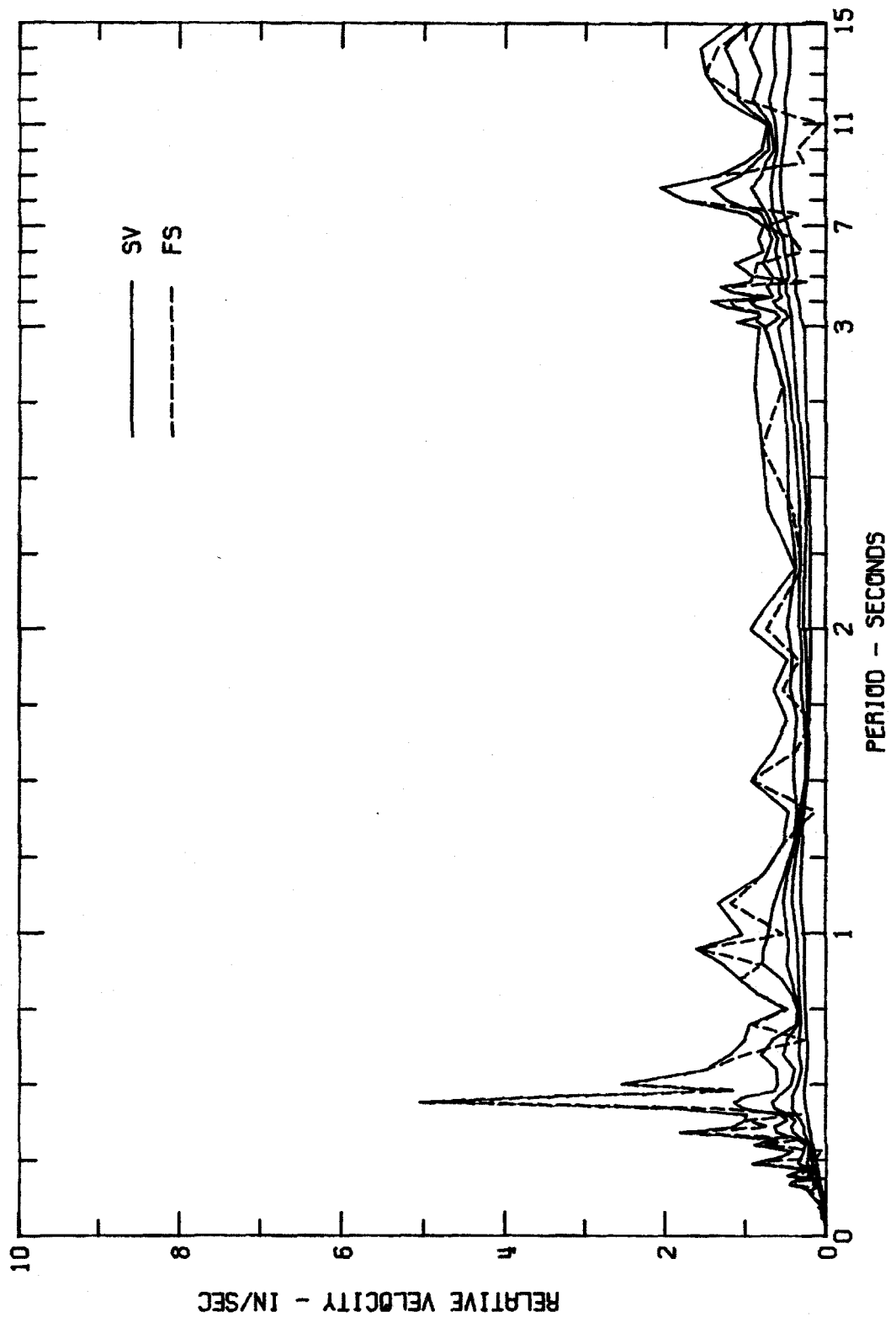
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0.80	186-2	243-3	190-2	389-4	191-2	122-3	947-3	195-4	959-3	105-3	842-3	169-4	827-3	869-4	698-3	142-4	682-3
0.85	235-2	318-3	235-2	450-4	235-2	151-3	113-2	214-4	111-2	959-4	866-3	136-4	709-3	808-4	673-3	116-4	597-3
0.90	181-2	354-3	245-2	447-4	247-2	162-3	122-2	204-4	113-2	123-3	918-3	156-4	862-3	859-4	648-3	111-4	600-3
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RELATIVE VELOCITY RESPONSE SPECTRUM

EUREKA EARTHQUAKE JULY 6, 1934 - 1449 PST

111U294 34.001.0 CITY HALL, FERDALE, CALIFORNIA COMP UP

DAMPING VALUES ARE 0. 2, 5, 10 AND 20 PERCENT OF CRITICAL

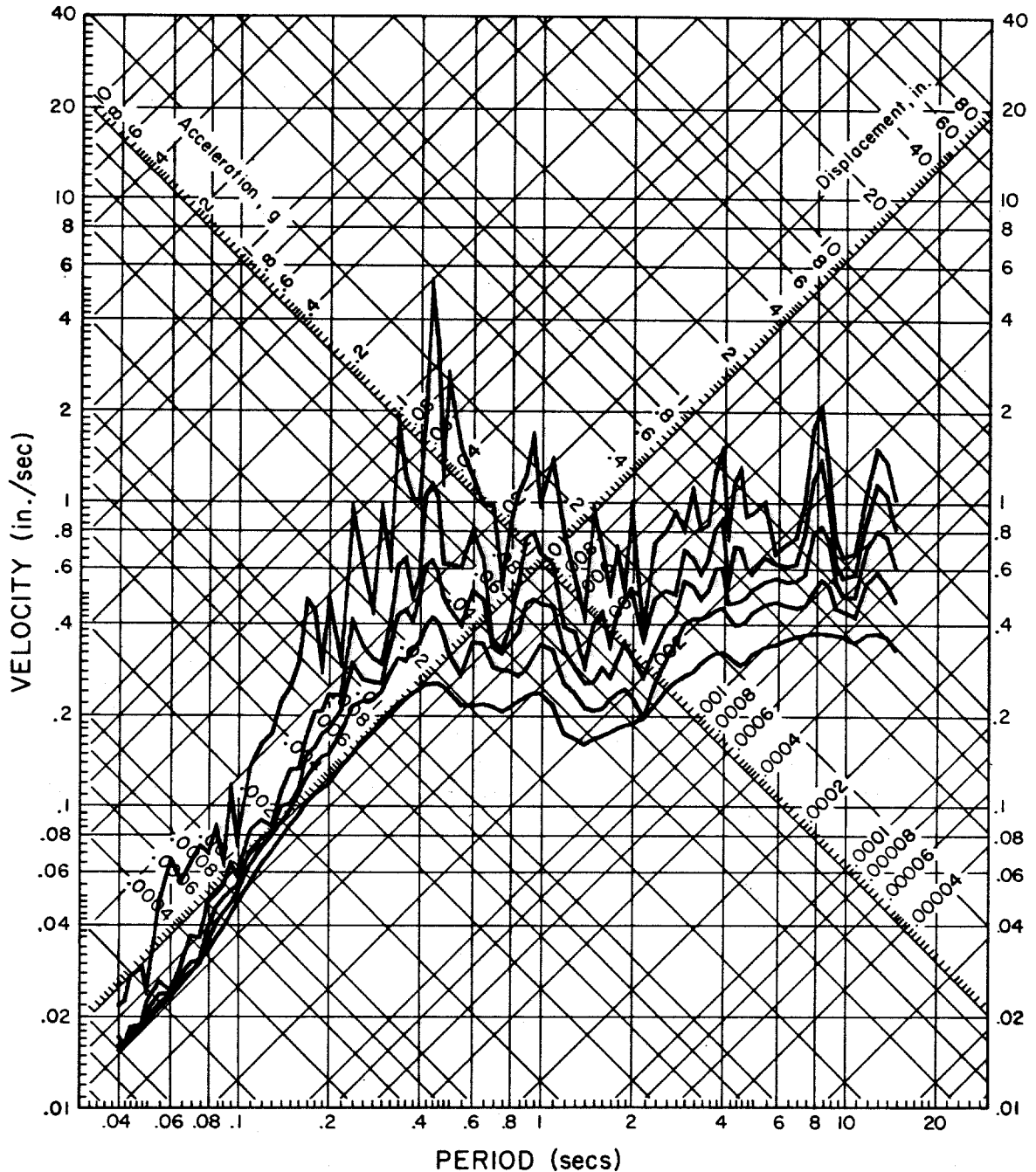


RESPONSE SPECTRUM

EUREKA EARTHQUAKE JULY 6, 1934 - 1449 PST

IIIU294 34.001.0 CITY HALL, FERNDALE, CALIFORNIA COMP UP

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



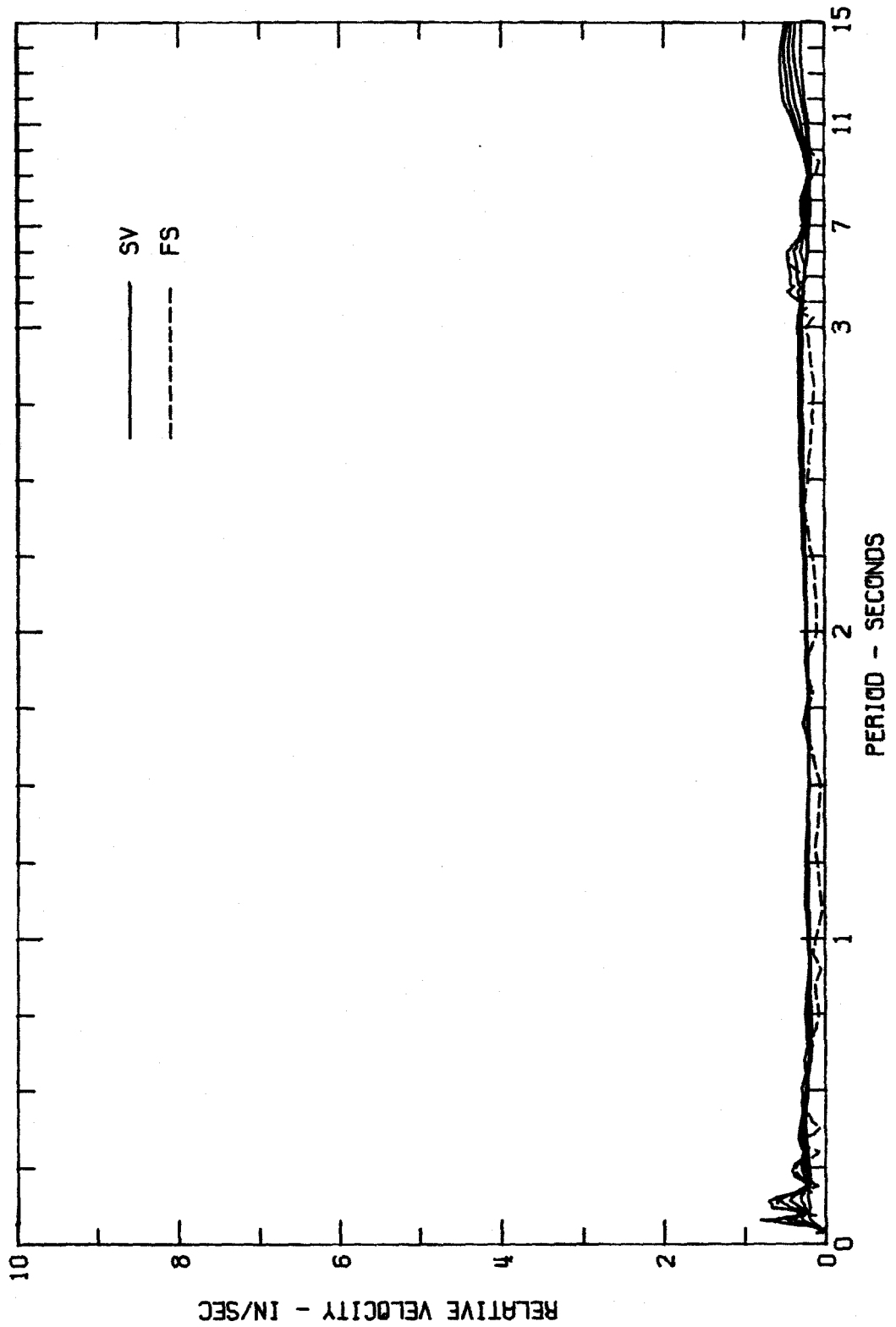
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0.085	509-4	113-5	646-4	160-4	837-4	677-6	286-4	960-5	500-4	614-6	230-4	866-5	453-4	542-6	192-4	769-5	401-4	488-6	168-4	699-5	360-4
0.090	207-4	917-6	472-4	115-4	640-4	765-6	374-4	966-5	534-4	698-6	302-4	880-5	487-4	624-6	237-4	787-5	435-4	558-6	188-4	715-5	389-4
0.095	678-4	167-5	979-4	193-4	111-3	958-6	407-4	108-4	633-4	772-6	313-4	880-5	510-4	704-6	259-4	797-5	465-4	648-6	212-4	747-5	428-4
0.100	465-4	119-5	570-4	122-4	751-4	908-6	298-4	929-5	570-4	853-6	292-4	873-5	536-4	809-6	267-4	835-5	508-4	745-6	236-4	771-5	468-4
0.110	217-4	235-5	109-3	198-4	134-3	143-5	549-4	121-4	818-4	121-5	422-4	103-4	693-4	109-5	338-4	927-5	624-4	958-6	281-4	835-5	547-4
0.120	138-3	304-5	137-3	216-4	159-3	169-5	503-4	120-4	886-4	146-5	491-4	103-4	768-4	136-5	412-4	970-5	715-4	120-5	332-4	874-5	630-4
0.130	139-3	357-5	168-3	216-4	172-3	174-5	614-4	105-4	843-4	167-5	560-4	101-4	810-4	162-5	501-4	991-5	785-4	144-5	390-4	906-5	698-4
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0.190	286-4	872-5	265-3	247-4	288-3	620-5	199-3	175-4	205-3	520-5	162-3	149-4	172-3	437-5	128-3	126-4	144-3	342-5	893-4	102-4	113-3
0.200	488-3	152-4	498-3	389-4	478-3	735-5	238-3	189-4	231-3	569-5	179-3	147-4	178-3	469-5	135-3	121-4	147-3	373-5	941-4	986-5	117-3
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0.360	715-3	681-4	114-2	538-4	119-2	372-4	646-3	293-4	649-3	252-4	430-3	200-4	441-3	171-4	276-3	138-4	300-3	128-4	214-3	107-4	224-3
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0.440	500-2	354-3	506-2	187-3	505-2	798-4	114-2	423-4	114-2	448-4	671-3	239-4	640-3	291-4	414-3	157-4	416-3	176-4	268-3	100-4	252-3
0.450	327-2	247-3	336-2	119-3	337-2	754-4	998-3	363-4	103-2	426-4	596-3	207-4	582-3	295-4	420-3	145-4	403-3	185-4	275-3	974-5	253-3
0.480	111-2	979-4	126-2	434-4	128-2	475-4	633-3	210-4	621-3	369-4	517-3	166-4	484-3	277-4	357-3	126-4	362-3	189-4	272-3	929-5	247-3
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0.550	146-2	130-3	148-2	442-4	149-2	529-4	623-3	179-4	605-3	342-4	392-3	115-4	391-3	235-4	300-3	813-5	269-3	188-4	247-3	712-5	214-3
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0.700	908-3	107-3	948-3	225-4	967-3	378-4	362-3	789-5	339-3	367-4	348-3	769-5	330-3	319-4	302-3	682-5	286-5	236-4	245-3	549-5	212-3

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
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																	DAMPING = 20 PER CENT
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0.80	832-3	108-3	837-3	173-4	854-3	509-4	423-3	812-5	399-3	441-4	386-3	710-5	346-3	353-4	336-3	581-5	277-3
0.85	106-2	146-3	107-2	207-4	108-2	739-4	556-3	104-4	546-3	506-4	430-3	723-5	374-3	363-4	347-3	527-5	268-3
0.90	816-3	176-3	129-2	223-4	123-2	109-3	790-3	138-4	765-3	665-4	496-3	844-5	464-3	404-4	354-3	525-5	282-3
0.95	158-2	246-3	162-2	279-4	163-2	119-3	789-3	135-4	789-3	721-4	472-3	822-5	477-3	470-4	367-3	548-5	311-3
1.00	532-3	156-3	103-2	160-4	985-3	107-3	714-3	110-4	677-3	736-4	488-3	758-5	462-3	541-4	369-3	569-5	340-3
1.10	118-2	240-3	134-2	203-4	137-2	109-3	647-3	922-5	622-3	793-4	533-3	675-5	453-3	571-4	423-3	499-5	326-3
1.20	761-3	147-3	762-3	104-4	773-4	740-4	510-3	526-5	387-3	621-4	471-3	444-5	325-3	483-4	407-3	349-5	253-3
1.30	520-3	115-3	527-3	699-5	558-3	772-4	395-3	467-5	373-3	588-4	375-3	359-5	284-3	487-4	346-3	306-5	235-3
1.40	135-3	937-4	462-3	489-5	420-3	641-4	351-3	334-5	287-3	566-4	310-3	299-5	254-3	469-4	289-3	257-5	210-3
1.50	921-3	224-3	930-3	101-4	939-3	957-4	400-3	435-5	401-3	612-4	259-3	279-5	256-3	493-4	229-3	228-5	206-3
1.60	371-3	179-3	655-3	715-5	702-3	110-3	400-3	443-5	435-3	727-4	251-3	292-5	285-3	534-4	218-3	219-5	209-3
1.70	184-3	136-3	487-3	483-5	504-3	915-4	352-3	324-5	338-3	715-4	266-3	254-5	264-3	609-4	222-3	222-5	225-3
1.80	544-3	199-3	650-3	528-5	695-3	125-3	440-3	395-5	436-3	874-4	319-3	277-5	305-3	678-4	232-3	221-5	236-3
1.90	346-3	153-3	480-3	435-5	508-3	143-3	428-3	406-5	473-3	104-3	309-3	296-5	344-3	733-4	246-3	210-5	242-3
2.00	741-3	299-3	945-3	766-5	941-3	164-3	489-3	420-5	516-3	998-4	336-3	256-5	313-3	734-4	272-3	192-5	230-3
2.20	304-3	133-3	383-3	282-5	381-3	123-3	375-3	261-5	352-3	935-4	326-3	199-5	267-3	686-4	262-3	148-5	195-3
2.40	413-3	281-3	728-3	500-5	737-3	183-3	462-3	326-5	480-3	126-3	320-3	226-5	330-3	967-4	236-3	174-5	253-3
2.60	800-3	331-3	807-3	501-5	800-3	212-3	485-3	321-5	512-3	162-3	381-3	247-5	392-3	124-3	303-3	192-5	300-3
2.80	537-3	412-3	885-3	538-5	925-3	221-3	525-3	289-5	497-3	189-3	451-3	248-5	424-3	154-3	373-3	204-5	345-3
3.00	758-3	386-3	836-3	438-5	808-3	331-3	772-3	377-5	694-3	262-3	606-3	299-5	549-3	190-3	437-3	220-5	399-3
3.20	863-3	556-3	111-2	555-5	109-2	333-3	651-3	333-5	654-3	268-3	547-3	269-5	527-3	210-3	431-3	214-5	413-3
3.40	809-3	438-3	811-3	388-5	811-3	314-3	572-3	278-5	580-3	260-3	467-3	231-5	480-3	224-3	420-3	203-5	414-3
3.60	840-3	481-3	840-3	379-5	840-3	371-3	628-3	293-5	648-3	295-3	498-3	235-5	516-3	243-3	437-3	197-5	424-3
3.80	112-2	754-3	124-2	534-5	124-2	494-3	868-3	350-5	817-3	365-3	603-3	260-5	604-3	266-3	454-3	193-5	440-3
4.00	118-2	940-3	142-2	600-5	147-2	556-3	944-3	356-5	874-3	387-3	655-3	249-5	609-3	287-3	468-3	189-5	450-3
4.20	675-3	531-3	797-3	308-5	795-3	366-3	652-3	212-5	548-3	309-3	548-3	180-5	463-3	280-3	465-3	169-5	420-3
4.40	116-2	816-3	116-2	431-5	116-2	500-3	692-3	264-5	714-3	327-3	583-3	173-5	467-3	276-3	491-3	151-5	395-3
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4.80	220-3	685-3	931-3	304-5	897-3	467-3	678-3	207-5	611-3	373-3	572-3	167-5	488-3	312-3	488-3	143-5	408-3
5.00	899-3	726-3	908-3	297-5	913-3	461-3	664-3	189-5	580-3	407-3	545-3	169-5	512-3	343-3	463-3	147-5	431-3
5.50	856-3	875-3	113-2	296-5	100-2	574-3	788-3	194-5	656-3	477-3	593-3	164-5	545-3	402-3	487-3	146-5	459-3
6.00	303-3	645-3	785-3	183-5	675-3	599-3	721-3	170-5	627-3	536-3	637-3	153-5	562-3	449-3	524-3	131-5	471-3
6.50	413-3	751-3	843-3	181-5	726-3	636-3	672-3	154-5	615-3	566-3	600-3	139-5	547-3	474-3	530-3	120-5	458-3
7.00	758-3	846-3	782-3	176-5	759-3	695-3	740-3	145-5	624-3	614-3	684-3	129-5	551-3	502-3	605-3	104-5	451-3
7.50	332-3	118-2	988-3	215-5	993-3	939-3	806-3	171-5	787-3	690-3	736-3	126-5	578-3	546-3	654-3	104-5	457-3
8.00	176-2	224-2	176-2	358-5	176-2	149-2	103-3	123-2	239-5	117-2	996-3	160-5	782-3	649-3	678-3	106-5	510-3
8.50	205-2	278-2	206-2	393-5	205-2	184-2	141-2	261-5	136-2	112-2	927-3	160-5	831-3	751-3	681-3	111-5	555-3
9.00	127-2	183-2	131-2	231-5	127-2	140-2	104-2	107-5	979-3	106-2	792-3	135-5	745-3	759-3	668-3	100-5	530-3
9.50	273-3	113-2	993-3	129-5	753-3	943-3	874-3	107-5	624-3	825-3	742-3	941-6	545-3	678-3	643-3	807-6	448-3
10.00	369-3	104-2	794-3	107-5	657-3	899-3	715-3	121-6	565-3	781-3	649-3	817-6	491-3	701-3	609-3	768-6	440-3
11.00	731-4	119-2	733-3	100-5	680-3	101-2	722-3	857-6	578-3	857-3	695-3	742-6	490-3	737-3	632-3	677-6	421-3
12.00	102-2	201-2	127-2	142-5	105-2	163-2	109-2	116-5	855-3	134-2	905-3	959-6	702-3	103-2	706-3	753-6	542-3
13.00	149-2	310-2	129-2	187-5	149-2	236-2	110-2	143-5	114-2	166-2	806-3	101-5	804-3	122-2	621-3	768-6	589-3
14.00	134-2	300-2	156-2	156-5	135-2	233-2	125-2	121-5	104-2	170-2	946-3	891-6	763-3	119-2	653-3	650-6	534-3
15.00	916-3	243-2	114-2	110-5	101-2	194-2	978-3	884-6	813-3	145-2	795-3	667-6	609-3	112-2	633-3	539-6	471-3

RELATIVE VELOCITY RESPONSE SPECTRUM
HELENA, MONTANA, EARTHQUAKE AFTERSHOCK OCT 31, 1935 - 1218 MST
111U295 35.002.0 FEDERAL BUILDING, HELENA, MONTANA COMP NORTH
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

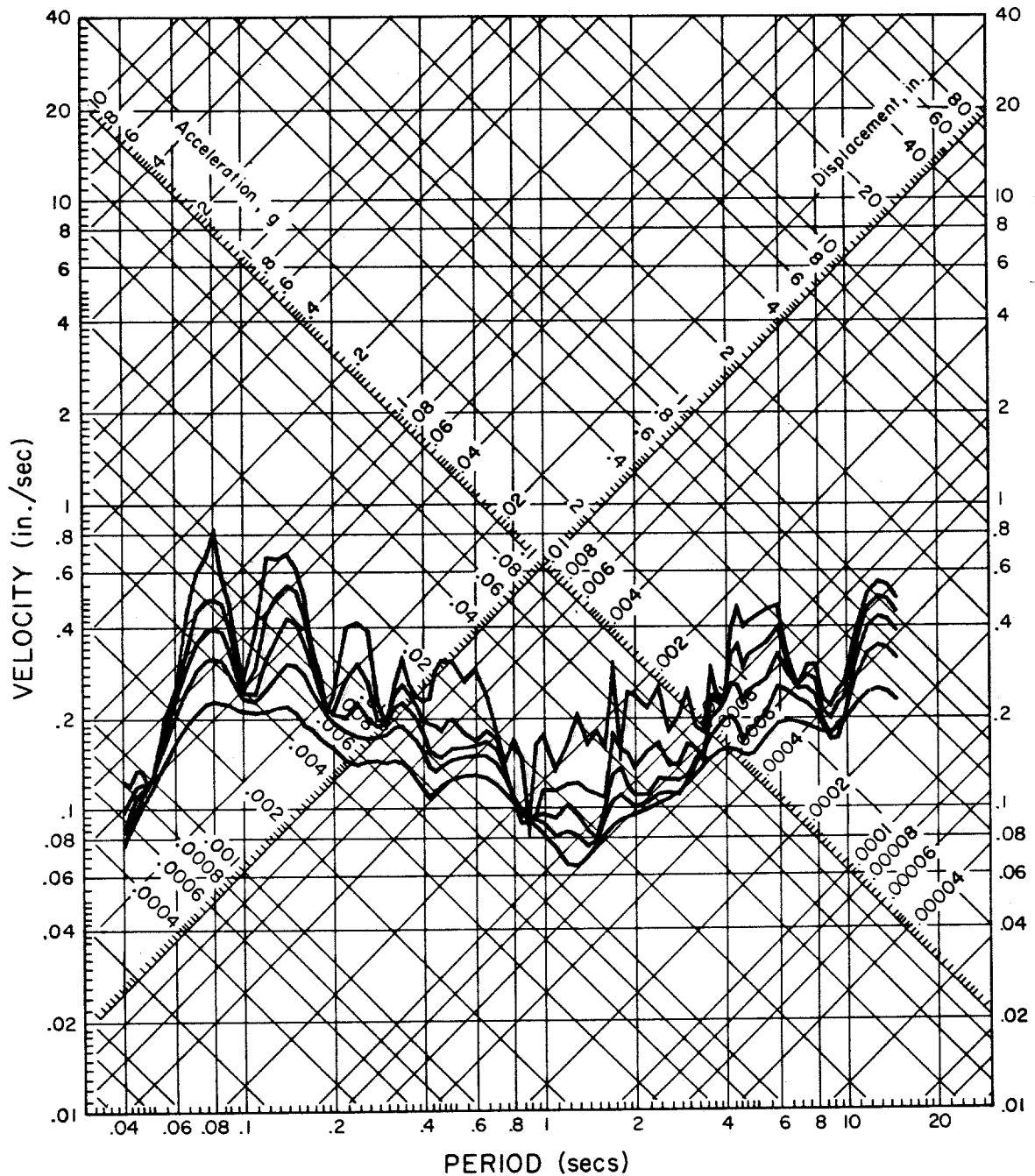


RESPONSE SPECTRUM

HELENA, MONTANA, EARTHQUAKE AFTERSHOCK OCT 31, 1935 - 1218 MST

IIIU295 35.002.0 FEDERAL BUILDING, HELENA, MONTANA COMP NORTH

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



HELENA, MONTANA, EARTHQUAKE AFTERSHOCK OCT 31, 1935 - 1218 MST
 111U295 35.002.0 FEDERAL BUILDING, HELENA, MONTANA COMP NORTH

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

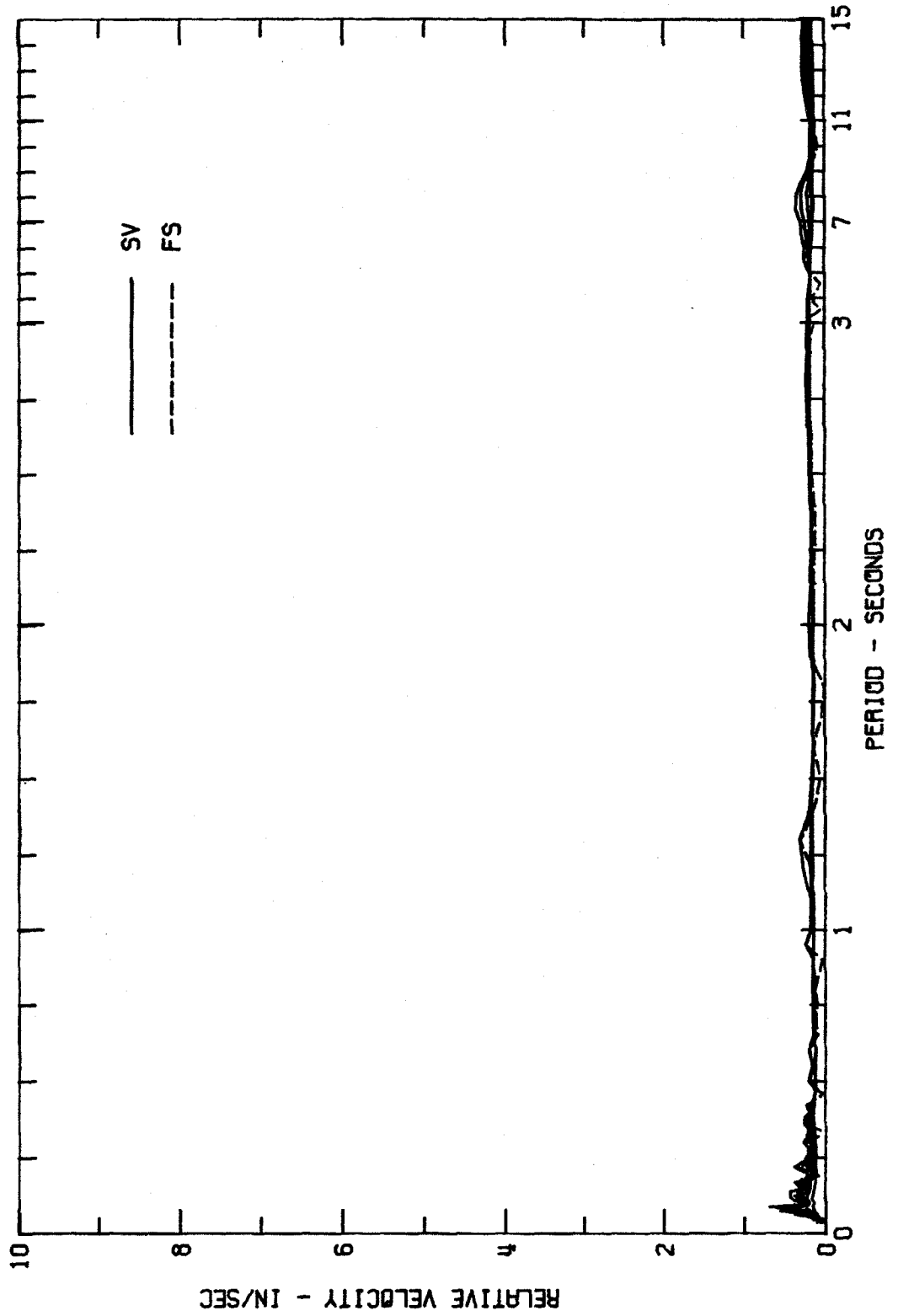
DAMPING = 0 PER CENT			DAMPING = 2 PER CENT			DAMPING = 5 PER CENT			DAMPING = 10 PER CENT			DAMPING = 20 PER CENT					
PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.040	109-3	779-6	122-3	498-4	122-3	617-6	776-4	396-4	970-4	527-6	640-4	337-4	828-4	475-6	530-4	305-4	747-4
0.042	590-4	797-6	827-4	462-4	119-3	722-6	745-4	420-4	108-3	643-6	653-4	376-4	962-4	583-6	561-4	339-4	872-4
0.044	298-4	932-6	811-4	492-4	133-3	824-6	724-4	435-4	117-3	750-6	665-4	398-4	107-3	688-6	599-4	365-4	982-4
0.046	330-4	978-6	838-4	472-4	133-3	879-6	659-4	424-4	120-3	834-6	651-4	401-4	113-3	792-6	636-4	382-4	108-3
0.048	535-4	910-6	676-4	404-4	119-3	904-6	655-4	400-4	118-3	914-6	683-4	405-4	119-3	896-6	686-4	399-4	117-3
0.050	217-4	100-5	810-4	412-4	126-3	100-5	755-4	410-4	125-3	102-5	773-4	414-4	128-3	101-5	763-4	414-4	127-3
0.055	454-4	175-5	143-3	594-4	200-3	160-5	128-3	545-4	183-3	153-5	117-3	516-4	175-3	142-5	103-3	487-4	162-3
0.060	167-3	242-5	246-3	689-4	254-3	237-5	187-3	675-4	248-3	219-5	170-3	630-4	229-3	195-5	142-3	562-4	204-3
0.065	439-3	462-5	449-3	112-3	447-3	345-5	309-3	836-4	333-3	303-5	237-3	735-4	293-3	257-5	191-3	634-4	249-3
0.070	527-3	675-5	588-3	141-3	606-3	504-5	427-3	105-3	452-3	394-5	316-3	826-4	353-3	319-5	241-3	681-4	287-3
0.075	583-3	810-5	660-3	147-3	678-3	585-5	475-3	106-3	490-3	464-5	376-3	834-4	388-3	371-5	284-3	673-4	311-3
0.080	815-3	104-4	819-3	167-3	822-3	623-5	485-3	100-3	490-3	501-5	397-3	821-4	394-3	400-5	299-3	661-4	314-3
0.085	409-3	786-5	565-3	111-3	581-3	645-5	485-3	922-4	477-3	521-5	402-3	742-4	385-3	417-5	309-3	585-4	308-3
0.090	387-3	678-5	461-3	856-4	473-3	564-5	410-3	710-4	394-3	474-5	353-3	604-4	331-3	400-5	282-3	522-4	279-3
0.095	116-3	520-5	332-3	590-4	344-3	474-5	313-3	537-4	313-3	419-5	297-3	474-4	277-3	380-5	262-3	444-4	251-3
0.100	227-3	418-5	239-3	428-4	263-3	392-5	250-3	404-4	246-3	384-5	245-3	397-4	241-3	370-5	238-3	388-4	232-3
0.110	365-3	683-5	397-3	577-4	390-3	512-5	287-3	430-4	292-3	420-5	240-3	352-4	240-3	396-5	226-3	345-4	226-3
0.120	657-3	129-4	674-3	918-4	676-3	846-5	430-3	603-4	443-3	605-5	316-3	435-4	316-3	479-5	254-3	355-4	250-3
0.130	597-3	138-4	671-3	836-4	667-3	104-4	507-3	636-4	507-3	773-5	379-3	471-4	373-3	573-5	275-3	358-4	277-3
0.140	614-3	154-4	709-3	805-4	692-3	121-4	579-3	638-4	546-3	951-5	442-3	504-4	427-3	674-5	305-3	364-4	302-3
0.150	578-3	148-4	640-3	674-4	621-3	124-4	535-3	563-4	523-3	979-5	430-3	455-4	410-3	710-5	319-3	331-4	297-3
0.160	424-3	128-4	522-3	512-4	503-3	109-4	463-3	435-4	430-3	889-5	389-3	360-4	349-3	706-5	298-3	283-4	277-3
0.170	170-3	931-5	388-3	329-4	344-3	881-5	362-3	312-4	325-3	794-5	322-3	278-4	293-3	662-5	274-3	244-4	244-3
0.180	278-3	811-5	307-3	256-4	283-3	745-5	293-3	237-4	260-3	709-5	274-3	225-4	247-3	636-5	242-3	205-4	222-3
0.190	923-4	639-5	233-3	181-4	211-3	639-5	244-3	182-4	211-3	651-5	242-3	187-4	215-3	616-5	221-3	176-4	203-3
0.200	162-3	766-5	254-3	195-4	240-3	674-5	243-3	173-4	211-3	655-5	230-3	170-4	206-3	614-5	209-3	160-4	193-3
0.220	332-3	139-4	399-3	295-4	399-3	945-5	269-3	200-4	269-3	707-5	211-3	154-4	201-3	634-5	196-3	142-4	181-3
0.240	387-3	158-4	417-3	281-4	414-3	115-4	296-3	204-4	302-3	859-5	248-3	151-4	225-3	663-5	222-3	125-4	173-3
0.260	349-3	160-4	389-3	243-4	388-3	108-4	304-3	165-4	262-3	829-5	276-3	126-4	200-3	709-5	240-3	107-4	171-3
0.280	195-3	101-4	295-3	131-4	226-3	880-5	284-3	115-4	197-3	839-5	268-3	111-4	188-3	771-5	241-3	103-4	173-3
0.300	869-4	908-5	274-3	103-4	190-3	933-5	272-3	105-4	195-3	917-5	260-3	105-4	192-3	841-5	237-3	992-5	176-3
0.320	237-3	131-4	318-3	131-4	258-3	121-4	287-3	121-4	239-3	110-4	266-3	109-4	216-3	951-5	254-3	956-5	186-3
0.340	305-3	170-4	343-3	150-4	314-3	139-4	320-3	124-4	258-3	122-4	295-3	109-4	225-3	102-4	270-3	924-5	188-3
0.360	150-3	148-4	331-3	116-4	236-3	137-4	319-3	107-4	239-3	121-4	301-3	975-5	212-3	101-4	278-3	854-5	177-3
0.380	647-4	143-4	319-3	101-4	236-3	133-4	310-3	945-5	220-3	120-4	297-3	844-5	199-3	101-4	277-3	755-5	168-3
0.400	163-3	145-4	308-3	928-5	228-3	125-4	299-3	805-5	196-3	114-4	288-3	734-5	179-3	983-5	272-3	649-5	154-3
0.420	207-3	155-4	287-3	901-5	232-3	128-4	281-3	742-5	191-3	104-4	275-3	617-5	155-3	921-5	264-3	546-5	137-3
0.440	267-3	201-4	281-3	106-4	288-3	132-4	265-3	699-5	188-3	105-4	263-3	557-5	150-3	931-5	256-3	533-5	133-3
0.460	263-3	227-4	306-3	109-4	310-3	133-4	260-3	644-5	181-3	108-4	254-3	527-5	147-3	100-4	248-3	525-5	137-3
0.480	283-3	233-4	286-3	103-4	305-3	148-4	256-3	658-5	194-3	117-4	246-3	519-5	153-3	108-4	240-3	516-5	141-3
0.500	218-3	245-4	304-3	100-4	308-3	158-4	248-3	646-5	198-3	125-4	238-3	511-5	158-3	115-4	231-3	506-5	145-3
0.550	238-3	231-4	246-3	781-5	263-3	155-4	215-3	525-5	177-3	139-4	213-4	466-5	159-3	130-4	209-3	470-5	148-3
0.600	266-3	275-4	266-3	783-5	288-3	160-4	202-3	454-5	167-3	154-4	196-3	437-5	161-3	143-4	189-3	437-5	150-3
0.650	204-3	247-4	224-3	599-5	239-3	187-4	182-3	456-5	181-3	173-4	177-3	424-5	167-3	154-4	168-3	406-5	149-3
0.700	115-3	204-4	233-3	426-5	183-3	190-4	221-3	405-5	171-3	175-4	207-3	378-5	157-3	157-4	188-3	361-5	141-3

THE UNITS USED ARE SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT DAMPING = 2 PER CENT DAMPING = 5 PER CENT DAMPING = 10 PER CENT DAMPING = 20 PER CENT

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.75	812-4	169-4	254-3	308-5	142-3	164-4	240-3	306-5	137-3	158-4	222-3	304-5	132-3	149-4	201-3	305-5	125-3
0.80	113-3	215-4	242-3	344-5	169-3	133-4	233-3	221-5	104-3	137-4	221-3	236-5	108-3	138-4	205-3	257-5	109-3
0.85	126-3	199-4	218-3	281-5	147-3	120-4	217-3	177-5	892-4	128-4	212-3	195-5	947-4	133-4	203-3	223-5	983-4
0.90	552-4	124-4	203-3	156-5	866-4	127-4	205-3	166-5	893-4	131-4	206-3	178-5	918-4	133-4	202-3	203-5	932-4
0.95	154-3	248-4	203-3	281-5	164-3	145-4	205-3	169-5	960-4	142-4	205-3	172-5	939-4	137-4	203-3	191-5	911-4
1.00	115-3	279-4	213-3	285-5	175-3	183-4	234-3	187-5	115-3	151-4	211-3	167-5	953-4	142-4	206-3	180-5	892-4
1.10	438-4	311-4	240-3	198-5	134-3	200-4	233-3	169-5	114-3	161-4	226-3	142-5	925-4	141-4	216-3	155-5	805-4
1.20	838-4	311-4	249-3	221-5	163-3	229-4	242-3	163-5	120-3	194-4	233-3	139-5	101-3	159-4	221-3	125-5	835-4
1.30	123-3	423-4	237-3	256-5	204-3	250-4	233-3	151-5	121-3	194-4	227-3	118-5	942-4	166-4	218-3	104-5	806-4
1.40	744-4	364-4	217-3	190-5	163-3	254-4	216-3	133-5	114-3	187-4	215-3	985-6	843-4	166-4	206-3	855-6	783-4
1.50	656-4	431-4	199-3	196-5	180-3	264-4	202-3	121-5	111-3	188-4	204-3	863-6	789-4	186-4	206-3	855-6	783-4
1.60	155-3	406-4	190-3	162-5	159-3	275-4	194-3	110-5	108-3	256-4	198-3	102-5	100-3	236-4	203-3	951-6	927-4
1.70	270-3	778-4	269-3	275-5	184-3	477-4	194-3	169-5	176-3	351-4	199-3	124-5	136-3	286-4	204-3	102-5	105-3
1.80	153-3	441-4	199-3	139-5	154-3	450-4	202-3	142-5	157-3	389-4	205-3	123-5	136-3	316-4	209-3	101-5	110-3
1.90	243-3	736-4	243-3	208-5	243-3	462-4	214-3	131-5	153-3	356-4	215-3	101-5	117-3	319-4	217-3	918-6	105-3
2.00	977-4	755-4	230-3	193-5	237-3	433-4	229-3	110-5	136-3	351-4	228-3	903-6	110-3	319-4	226-3	836-6	100-3
2.20	131-3	755-4	264-3	159-5	215-3	542-4	260-3	114-5	154-3	388-4	255-3	827-6	110-3	363-4	248-3	781-6	103-3
2.40	253-3	970-4	293-3	172-5	254-3	630-4	287-3	111-5	165-3	480-4	279-3	857-6	125-3	425-4	267-3	770-6	111-3
2.60	177-3	748-4	314-3	113-5	180-3	574-4	306-3	872-6	138-3	514-4	296-3	795-6	124-3	467-4	282-3	721-6	112-3
2.80	129-3	903-4	325-3	117-5	202-3	627-4	318-3	819-6	140-3	552-4	307-3	734-6	123-3	495-4	293-3	659-6	111-3
3.00	228-3	117-3	330-3	133-5	246-3	782-4	323-3	889-6	163-3	617-4	313-3	703-6	129-3	593-4	298-3	686-6	124-3
3.20	185-3	950-4	329-3	949-6	186-3	805-4	322-3	805-6	158-3	749-4	313-3	752-6	14				

RELATIVE VELOCITY RESPONSE SPECTRUM
HELENA, MONTANA, EARTHQUAKE AFTERSHOCK OCT 31, 1935 - 1218 MST
111U295 35.002.0 FEDERAL BUILDING, HELENA, MONTANA COMP EAST
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

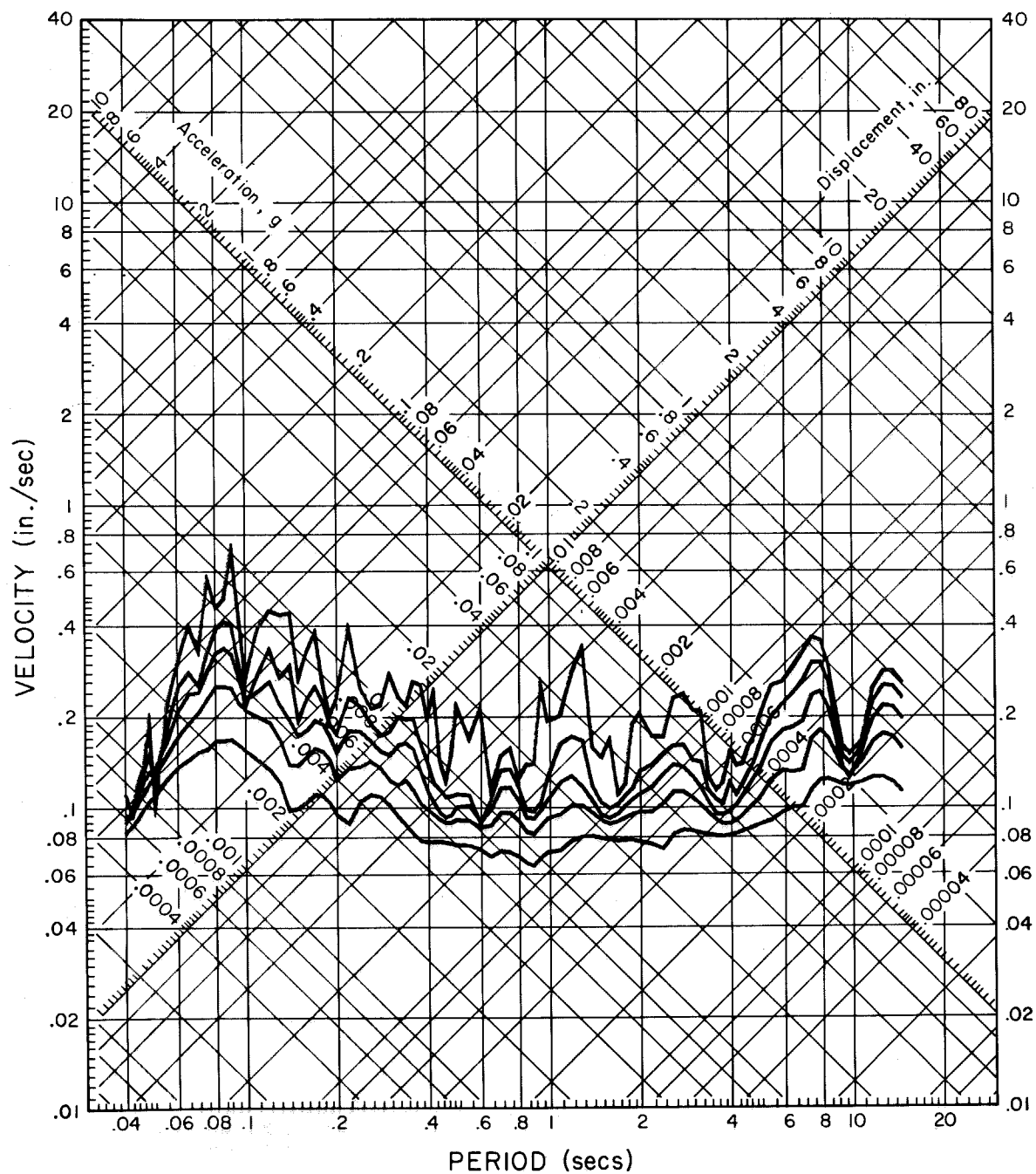


RESPONSE SPECTRUM

HELENA, MONTANA, EARTHQUAKE AFTERSHOCK OCT 31, 1935 - 1218 MST

IIIU295 35.002.0 FEDERAL BUILDING, HELENA, MONTANA COMP EAST

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



IIIU295 35.002.0 FEDERAL BUILDING, HELENA, MONTANA COMP EAST

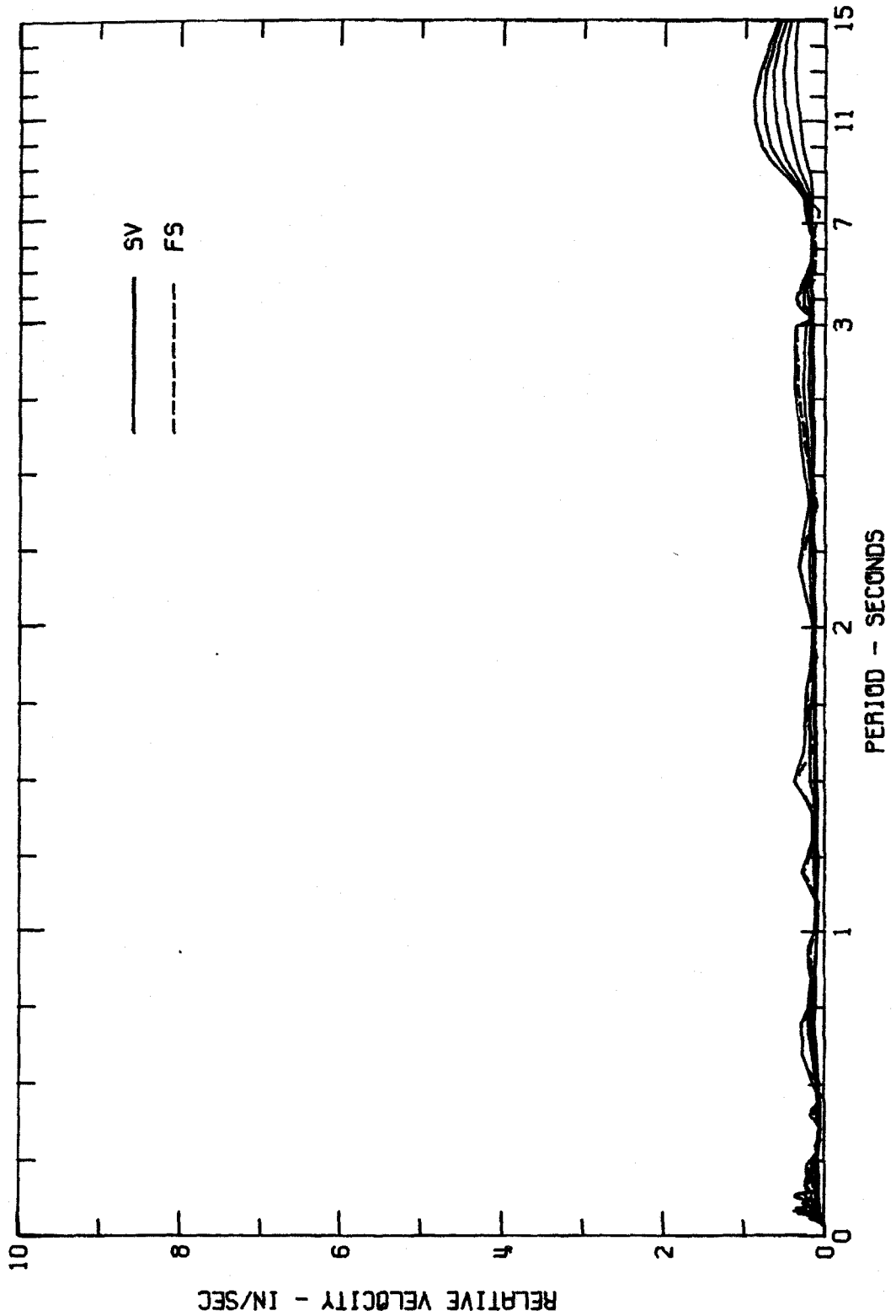
THE UNITS USED ARE SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	DAMPING = 0 PER CENT				DAMPING = 2 PER CENT				DAMPING = 5 PER CENT				DAMPING = 10 PERCENT				DAMPING = 20 PER CENT					
	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	
0.040	542-4	698-6	112-3	446-4	109-3	598-6	687-4	383-4	940-4	940-4	576-6	603-4	369-4	905-4	564-6	550-4	364-4	886-4	522-6	444-4	345-4	821-4
0.042	786-4	631-6	938-4	366-4	944-4	621-6	637-4	359-4	930-4	930-4	650-6	660-4	377-4	972-4	637-6	610-4	374-4	954-4	579-6	484-4	353-4	867-4
0.044	866-4	855-6	112-3	452-4	122-3	781-6	816-6	412-4	111-3	765-6	677-4	403-4	409-4	109-3	724-6	677-4	390-4	103-3	643-6	537-4	360-4	919-4
0.046	866-4	100-5	103-3	487-4	137-3	979-6	102-3	473-4	133-3	900-6	899-4	439-4	439-4	122-3	814-6	777-4	405-4	111-3	722-6	600-4	367-4	986-4
0.048	102-3	146-5	174-3	649-4	191-3	114-5	126-3	505-4	149-3	100-5	103-3	444-4	444-4	130-3	918-6	872-4	414-4	120-3	803-6	657-4	373-4	105-3
0.050	422-4	804-6	806-4	329-4	101-3	980-6	101-3	402-4	123-3	106-5	106-3	438-4	438-4	133-3	101-5	955-4	425-4	128-3	864-6	716-4	377-4	108-3
0.055	119-3	192-5	192-3	651-4	220-3	162-5	163-3	545-4	185-3	145-5	143-3	493-4	493-4	166-3	131-5	120-3	453-4	150-3	109-5	879-4	389-4	124-3
0.060	234-3	295-5	278-3	840-4	309-3	240-5	225-3	681-4	252-3	200-5	184-3	563-4	210-3	166-3	164-5	145-3	473-4	172-3	130-5	102-3	382-4	136-3
0.065	367-3	414-5	396-3	100-3	400-3	290-5	261-3	702-4	281-3	245-5	202-3	591-4	237-3	237-3	196-5	166-3	475-4	190-3	149-5	119-3	386-4	144-3
0.070	217-3	365-5	316-3	763-4	328-3	281-5	250-3	589-4	252-3	267-5	215-3	550-4	240-3	240-3	229-5	184-3	481-4	205-3	170-5	135-3	368-4	152-3
0.075	554-3	682-5	570-3	124-3	571-3	394-5	322-3	713-4	330-3	340-5	272-3	622-4	285-3	285-3	320-5	237-3	505-4	229-3	186-5	158-3	358-4	156-3
0.080	357-3	584-5	460-3	934-4	459-3	497-5	397-3	789-4	390-3	413-5	322-3	655-4	325-3	325-3	340-5	241-3	505-4	252-3	224-5	163-3	343-4	166-3
0.085	372-3	666-5	494-3	942-4	492-3	559-5	427-3	788-4	413-3	456-5	336-3	653-4	337-3	337-3	340-5	239-3	454-4	248-3	240-5	164-3	328-4	167-3
0.090	707-3	101-4	709-3	128-3	710-3	577-5	407-3	723-4	403-3	461-5	311-3	592-4	321-3	321-3	356-5	239-3	454-4	248-3	240-5	164-3	328-4	167-3
0.095	245-3	639-5	427-3	724-4	423-3	447-5	290-3	509-4	295-3	406-5	259-3	459-4	269-3	269-3	337-5	221-3	398-4	223-3	245-5	167-3	298-4	162-3
0.100	228-3	424-5	261-3	434-4	266-3	341-5	215-3	349-4	214-3	361-5	219-3	371-4	227-3	227-3	334-5	206-3	337-4	210-3	246-5	159-3	278-4	154-3
0.110	356-3	688-5	392-3	582-4	393-3	483-5	275-3	411-4	276-3	425-5	245-3</											

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.75	108-3	187-4	158-3	340-5	156-3	159-4	146-3	291-5	133-3	138-4	141-3	253-5	116-3	114-4	137-3	216-5	957-4	848-5	134-3	194-5	710-4
0.80	122-3	159-4	167-3	254-5	125-3	148-4	160-3	235-5	116-3	133-4	152-3	215-5	104-3	114-4	144-3	190-5	900-4	875-5	138-3	183-5	687-4
0.85	920-4	188-4	161-3	266-5	138-3	132-4	157-3	187-5	981-4	125-4	152-3	178-5	927-4	112-4	147-3	163-5	830-4	886-5	141-3	172-5	655-4
0.90	250-4	199-4	148-3	261-5	139-3	138-4	148-3	176-5	969-4	131-4	148-3	167-5	918-4	117-4	147-3	155-5	816-4	916-5	143-3	162-5	639-4
0.95	239-3	386-4	249-3	437-5	255-3	157-4	143-3	178-5	104-3	148-4	146-3	169-5	979-4	131-4	147-3	156-5	872-4	103-4	145-3	153-5	684-4
1.00	179-3	308-4	185-3	313-5	192-3	200-4	145-3	205-5	125-3	168-4	148-3	173-5	105-3	146-4	149-3	156-5	918-4	113-4	147-3	145-5	710-4
1.10	150-3	352-4	189-3	297-5	201-3	284-4	164-3	240-5	162-3	211-4	162-3	179-5	120-3	165-4	159-3	146-5	946-4	126-4	153-3	132-5	720-4
1.20	169-3	536-4	277-3	380-5	280-3	327-4	183-3	232-5	171-3	242-4	176-3	173-5	126-3	193-4	168-3	141-5	101-3	148-4	158-3	117-5	774-4
1.30	313-3	699-4	320-3	423-5	338-3	343-4	188-3	208-5	166-3	242-4	180-3	147-5	117-3	209-4	171-3	129-5	101-3	165-4	160-3	110-5	800-4
1.40	130-3	351-4	183-3	183-5	157-3	261-4	180-3	136-5	117-3	233-4	175-3	123-5	104-3	213-4	169-3	115-5	958-4	179-4	160-3	103-5	803-4
1.50	629-4	349-4	167-3	158-5	146-3	247-4	167-3	112-5	103-3	226-4	166-3	104-5	947-4	216-4	163-3	102-5	906-4	189-4	159-3	955-6	792-4
1.60	158-3	427-4	157-3	170-5	168-3	252-4	154-3	101-5	992-4	234-4	156-3	946-6	921-4	224-4	157-3	946-6	883-4	199-4	157-3	906-6	783-4
1.70	446-4	298-4	142-3	105-5	110-3	277-4	145-3	982-6	102-3	257-4	149-3	918-6	952-4	242-4	153-3	899-6	897-4	209-4	155-3	862-6	774-4
1.80	187-4	343-4	138-3	108-5	120-3	312-4	141-3	987-6	109-3	289-4	146-3	922-6	101-3	265-4	150-3	867-6	926-4	223-4	155-3	821-6	780-4
1.90	189-3	573-4	189-3	162-5	189-3	349-4	142-3	990-6	115-3	320-4	146-3	920-6	106-3	286-4	151-3	843-6	948-4	236-4	155-3	780-6	781-4
2.00	156-3	651-4	204-3	166-5	204-3	418-4	146-3	106-5	131-3	350-4	149-3	899-6	110-3	307-4	153-3	815-6	965-4	245-4	157-3	735-6	771-4
2.20	132-3	603-4	170-3	127-5	172-3	483-4	160-3	102-5	138-3	408-4	161-3	869-6	116-3	339-4	161-3	738-6	968-4	264-4	162-3	632-6	755-4
2.40	120-3	654-4	180-3	116-5	171-3	578-4	177-3	102-5	151-3	494-4	175-3	881-6	129-3	393-4	172-3	708-6	102-3	279-4	168-3	552-6	730-4
2.60	206-3	955-4	206-3	144-5	230-3	663-4	191-3	100-5	160-3	574-4	187-3	876-6	138-3	466-4	182-3	720-6	112-3	338-4	175-3	545-6	818-4
2.80	231-3	105-3	237-3	137-5	236-3	717-4	202-3	936-6	160-3	605-4	197-3	793-6	135-3	502-4	191-3	676-6	112-3	375-4	181-3	544-6	842-4
3.00	139-3	100-3	214-3	114-5	210-3	684-4	210-3	777-6	143-3	605-4	204-3	690-6	126-3	513-4	197-3	596-6	107-3	399-4	186-3	513-6	836-4
3.20	206-3	105-3	217-3	105-5	207-3	720-4	213-3	720-6	141-3	590-4	208-3	593-6	115-3	520-4	200-3	530-6	102-3	419-4	189-3	471-6	823-4
3.40	118-3	678-4	218-3	600-6	125-3	614-4	215-3	544-6	113-3	563-4	210-3	502-6	104-3	519-4	202-3	470-6	960-4	441-4	191-3	429-6	815-4
3.60	438-4	656-4	217-3	517-6	114-3	610-4	214-3	482-6	106-3	545-4	209-3	433-6	952-4	522-4	202-3	424-6	911-4	462-4	191-3	394-6	807-4
3.80	121-3	735-4	214-3	520-6	121-3	625-4	211-3	443-6	103-3	574-4	207-3	409-6	950-4	535-4	201-3	391-6	886-4	486-4	191-3	374-6	804-4
4.00	151-3	970-4	210-3	620-6	152-3	771-4	207-3	493-6	121-3	619-4	204-3	398-6	972-4	564-4	199-3	372-6	886-4	515-4	190-3	361-6	809-4
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4.40	912-4	983-4	199-3	517-6	139-3	838-4	198-3	443-6	119-3	763-4	196-3	405-6	109-3	660-4	192-3	361-6	943-4	584-4	186-3	344-6	834-4
4.60	627-4	116-3	194-3	563-6	159-3	956-4	193-3	462-6	130-3	859-4	191-3	416-6	117-3	720-4	189-3	361-6	984-4	621-4	184-3	338-6	849-4
4.80	120-3	131-3	188-3	582-6	171-3	108-3	187-3	480-6	141-3	957-4	187-3	428-6	125-3	787-4	185-3	361-6	103-3	659-4	181-3	333-6	863-4
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5.50	252-3	221-3	253-3	750-6	253-3	175-3	191-3	592-6	200-3	144-3	170-3	491-6	165-3	107-3	171-3	371-6	123-3	794-4	171-3	309-6	908-4
6.00	176-3	249-3	250-3	709-6	261-3	210-3	211-3	598-6	220-3	172-3	177-3	492-6	180-3	126-3	161-3	369-6	132-3	921-4	163-3	282-6	964-4
6.50	194-3	302-3	290-3	732-6	292-3	248-3	234-3	601-6	239-3	190-3	183-3	464-6	184-3	135-3	152-3	336-6	131-3	103-3	156-3	272-6	100-3
7.00	305-3	364-3	309-3	761-6	327-3	292-3	255-3	610-6	262-3	215-3	196-3	452-6	193-3	148-3	157-3	320-6	133-3	112-3	150-3	261-6	101-3
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8.00	357-3	456-3	358-3	728-6	358-3	384-3	292-3	615-6	302-3	308-3	224-3	494-6	241-3	229-3	163-3	374-6	180-3	156-3	142-3	271-6	123-3
8.50	298-3	405-3	299-3	574-6	300-3	350-3	250-3	496-6	258-3	291-3	199-3	414-6	215-3	230-3	161-3	332-6	170-3	168-3	142-3	258-6	124-3
9.00	214-3	309-3	216-3	390-6	216-3	279-3	194-3	353-6	195-3	249-3	171-3	316-6	174-3	217-3	158-3	279-6	151-3	174-3	141-3	239-6	121-3
9.50	129-3	241-3	182-3	273-6	159-3	224-3	176-3	254-6	148-3	206-3	168-3	234-6	136-3	204-3	156-3	236-6	135-3	180-3	139-3	221-6	119-3
10.00	826-4	241-3	183-3	246-6	151-3	223-3	175-3	229-6	140-3	200-3	164-3	206-6	126-3	203-3	152-3	212-6	128-3	188-3	135-3	209-6	118-3
11.00	166-3	292-3	181-3	247-6	166-3	280-3	173-3	237-6	160-3	268-3	163-3	227-6	153-3	250-3	148-3	216-6	143-3	213-3	129-3	195-6	121-3
12.00	247-3	475-3	248-3	337-6	248-3	430-3	218-3	306-6	225-3	379-3	183-3	270-6	198-3	317-3	157-3	230-6	166-3	241-3	134-3	185-6	126-3
13.00	282-3	587-3	283-3	355-6	283-3	525-3	247-3	318-6	254-3	452-3	220-3	275-6	218-3	364-3	187-3	225-6	176-3	262-3	148-3	172-6	126-3
14.00	281-3	630-3	283-3	329-6	283-3	562-3	260-3	293-6	252-3	480-3	232-3	251-6	215-3	382-3	197-3	203-6	171-3	271-3	153-3	153-6	121-3
15.00	258-3	619-3	259-3	281-6	259-3	551-3	238-3	250-6	230-3	470-3	213-3	215-6	197-3	376-3	186-3	174-6	157-3	269-3	150-3	135-6	112-3

RELATIVE VELOCITY RESPONSE SPECTRUM
HELENA, MONTANA, EARTHQUAKE AFTERSHOCK OCT 31, 1935 - 1218 MST
1111U295 35.002.0 FEDERAL BUILDING, HELENA, MONTANA COMP UP
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

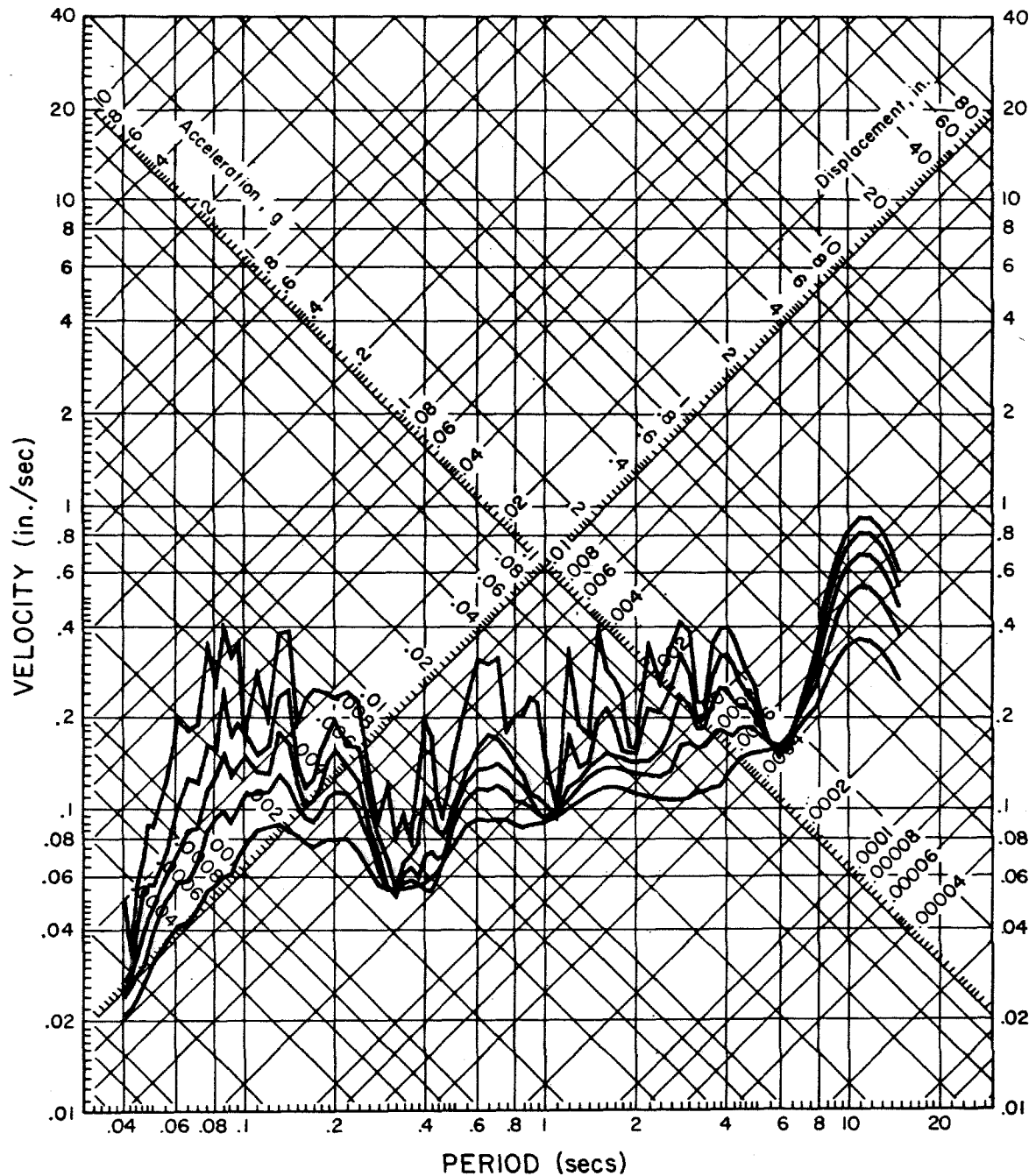


RESPONSE SPECTRUM

HELENA, MONTANA, EARTHQUAKE AFTERSHOCK OCT 31, 1935 - 1218 MST

IIIU295 35.002.0 FEDERAL BUILDING, HELENA, MONTANA COMP UP

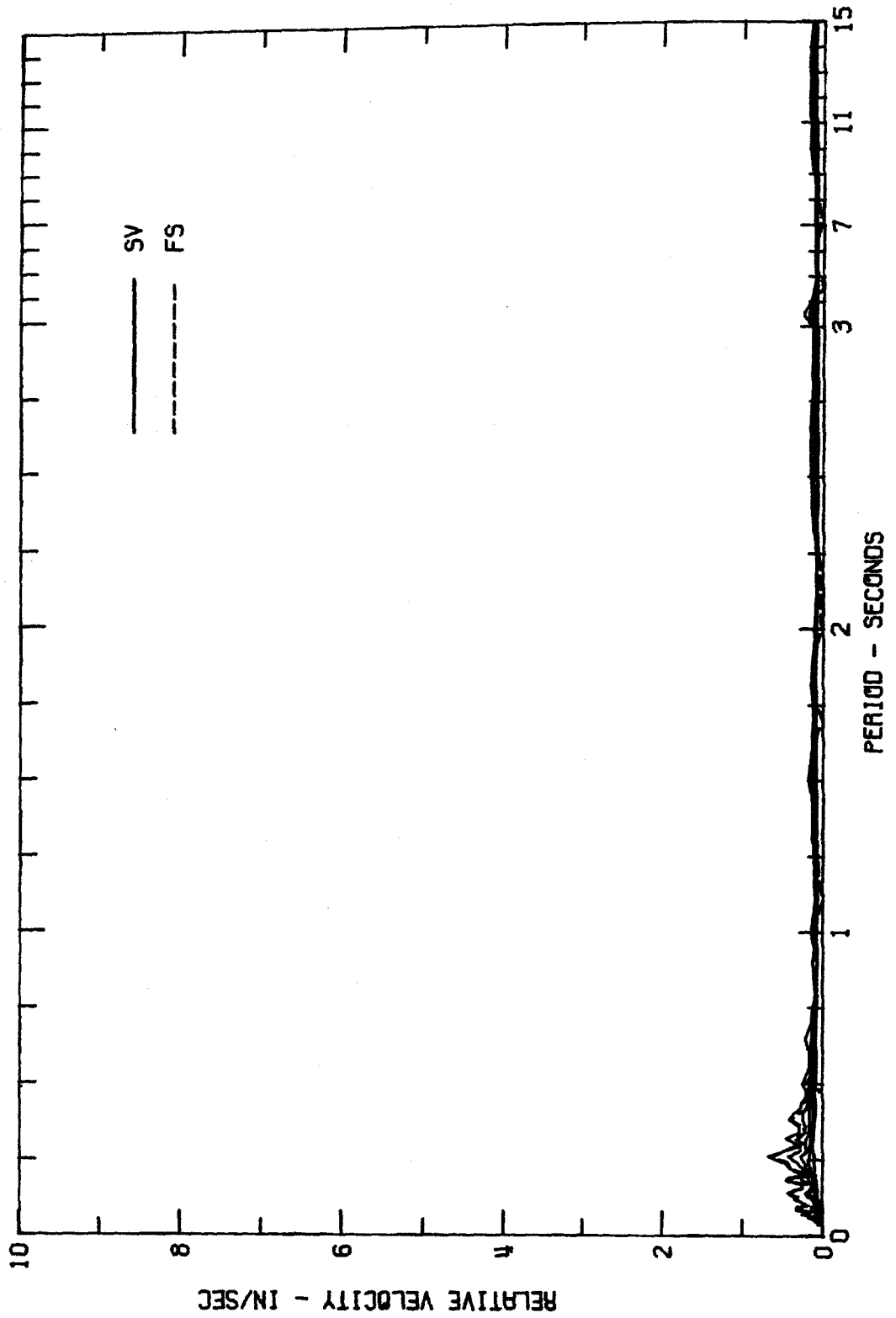
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.75	141-3	210-4	201-3	383-5	176-3	181-4	187-3	330-5	152-3	155-4	169-3	284-5	130-3	133-4	148-3	251-5	112-3
0.80	188-3	251-4	191-3	401-5	197-3	174-4	158-3	277-5	136-3	155-4	149-3	249-5	121-3	132-4	135-4	219-5	104-3
0.85	167-3	267-4	179-3	378-5	197-3	171-4	131-3	243-5	126-3	157-4	126-3	224-5	116-3	139-4	121-3	203-5	103-3
0.90	168-3	326-4	209-3	412-5	228-3	158-4	116-3	201-5	110-3	152-4	108-3	195-5	106-3	142-4	109-3	186-5	992-4
0.95	175-3	331-4	200-3	375-5	219-3	162-4	103-3	183-5	101-3	145-4	100-3	169-5	967-4	143-4	101-3	169-5	949-4
1.00	112-3	235-4	139-3	240-5	147-3	163-4	977-4	167-5	103-3	145-4	972-4	152-5	913-4	147-4	972-4	151-5	925-4
1.10	650-4	173-4	107-3	146-5	992-4	160-4	105-3	136-5	918-4	164-4	102-3	141-5	940-4	166-4	970-4	147-5	952-4
1.20	271-3	604-4	292-3	429-5	316-3	322-4	146-3	229-5	169-3	221-4	114-3	157-5	115-3	200-4	104-3	149-5	104-3
1.30	126-3	382-4	156-3	231-5	184-3	277-4	130-3	168-5	134-3	253-4	121-3	156-5	122-3	239-4	108-3	152-5	115-3
1.40	138-3	377-4	161-3	197-5	169-3	315-4	128-3	165-5	141-3	300-4	119-3	160-5	134-3	278-4	107-3	153-5	124-3
1.50	381-3	911-4	381-3	414-5	381-3	459-4	186-3	209-5	192-3	340-4	123-3	158-5	142-3	313-4	112-3	151-5	131-3
1.60	150-3	714-4	267-3	285-5	280-3	534-4	191-3	213-5	209-3	381-4	136-3	153-5	149-3	341-4	120-3	146-5	134-3
1.70	217-3	705-4	246-3	249-5	260-3	511-4	182-3	181-5	189-3	395-4	135-3	144-5	146-3	363-4	127-3	140-5	134-3
1.80	233-3	669-4	233-3	211-5	233-3	435-4	152-3	137-5	152-3	413-4	140-3	134-5	144-3	380-4	132-3	132-5	132-3
1.90	972-4	473-4	162-3	134-5	156-3	453-4	152-3	128-5	149-3	426-4	143-3	123-5	140-3	393-4	136-3	123-5	130-3
2.00	146-3	497-4	158-3	127-5	156-3	477-4	153-3	122-5	149-3	449-4	146-3	115-5	141-3	408-4	138-3	115-5	128-3
2.20	338-3	118-3	339-3	251-5	339-3	736-4	203-3	155-5	210-3	494-4	159-3	104-5	141-3	444-4	148-3	992-6	161-3
2.40	103-3	963-4	209-3	171-5	252-3	774-4	176-3	137-5	202-3	584-4	169-3	104-5	152-3	477-4	158-3	876-6	124-3
2.60	261-3	139-3	316-3	210-5	336-3	999-4	221-3	151-5	241-3	742-4	175-3	112-5	179-3	541-4	165-3	833-6	130-3
2.80	350-3	181-3	391-3	237-5	408-3	140-3	288-3	183-5	315-3	102-3	184-3	117-5	216-3	771-4	173-3	889-6	161-3
3.00	372-3	179-3	375-3	203-5	375-3	130-3	246-3	148-5	191-3	916-4	182-3	919-6	179-3	796-4	175-3	809-6	156-3
3.20	167-3	112-3	205-3	111-5	219-3	974-4	187-3	973-6	191-3	982-4	183-3	873-6	181-3	857-4	176-3	771-6	158-3
3.40	144-3	118-3	202-3	105-5	219-3	109-3	188-3	967-6	201-3	982-4	183-3	873-6	181-3	857-4	176-3	771-6	158-3
3.60	213-3	198-3	299-3	156-5	346-3	153-3	223-3	121-5	267-3	123-3	184-3	979-6	216-3	971-4	177-3	776-6	169-3
3.80	312-3	233-3	355-3	165-5	385-3	187-3	270-3	132-5	310-3	147-3	212-3	105-5	244-3	107-3	178-3	777-6	178-3
4.00	379-3	248-3	379-3	158-5	389-3	202-3	285-3	129-5	317-3	155-3	222-3	996-6	243-3	110-3	179-3	777-6	178-3
4.20	360-3	242-3	363-3	140-5	363-3	196-3	274-3	114-5	293-3	149-3	221-3	870-6	223-3	114-3	179-3	668-6	170-3
4.40	274-3	225-3	310-3	118-5	321-3	181-3	273-3	957-6	258-3	149-3	232-3	794-6	213-3	125-3	187-3	671-6	179-3
4.60	173-3	210-3	301-3	101-5	286-3	177-3	271-3	857-6	242-3	157-3	235-3	762-6	214-3	133-3	193-3	655-6	182-3
4.80	121-3	204-3	276-3	907-6	267-3	177-3	252-3	787-6	231-3	159-3	224-3	710-6	208-3	138-3	190-3	624-6	181-3
5.00	134-3	196-3	243-3	802-6	246-3	171-3	228-3	701-6	215-3	157-3	207-3	647-6	197-3	140-3	182-3	585-6	176-3
5.50	137-3	145-3	186-3	491-6	166-3	145-3	185-3	492-6	166-3	144-3	183-3	492-6	165-3	142-3	179-3	490-6	162-3
6.00	123-3	141-3	185-3	401-6	147-3	138-3	184-3	394-6	145-3	144-3	182-3	411-6	150-3	151-3	179-3	438-6	158-3
6.50	154-3	160-3	184-3	388-6	155-3	166-3	183-3	403-6	161-3	173-3	182-3	420-6	167-3	177-3	179-3	438-6	171-3
7.00	118-3	230-3	222-3	481-6	207-3	228-3	211-3	477-6	205-3	225-3	197-3	472-6	202-3	219-3	179-3	466-6	196-3
7.50	834-4	310-3	260-3	565-6	260-3	300-3	243-3	547-6	252-3	287-3	220-3	525-6	240-3	268-3	189-3	498-6	224-3
8.00	204-3	426-3	286-3	681-6	334-3	394-3	264-3	630-6	309-3	358-3	236-3	574-6	281-3	319-3	199-3	522-6	250-3
8.50	402-3	635-3	400-3	899-6	469-3	575-3	358-3	815-6	425-3	503-3	311-3	717-6	372-3	418-3	257-3	601-6	309-3
9.00	566-3	845-3	566-3	106-5	590-3	756-3	496-3	956-6	528-3	652-3	415-3	825-6	455-3	535-3	322-3	681-6	373-3
9.50	701-3	106-2	701-3	120-5	701-3	950-3	609-3	107-5	628-3	820-3	502-3	933-6	542-3	662-3	378-3	766-6	438-3
10.00	800-3	127-2	800-3	130-5	800-3	113-2	693-3	116-5	715-3	974-3	567-3	100-5	612-3	774-3	419-3	808-6	486-3
11.00	896-3	157-2	898-3	133-5	898-3	140-2	776-3	118-5	800-3	119-2	630-3	101-5	680-3	933-3	481-3	805-6	533-3
12.00	890-3	170-2	892-3	121-5	892-3	151-2	770-3	107-5	794-3	128-2	654-3	919-6	674-3	100-2	523-3	729-6	526-3
13.00	818-3	169-2	821-3	102-5	821-3	151-2	754-3	916-6	731-3	128-2	666-3	781-6	621-3	100-2	549-3	621-6	486-3
14.00	714-3	159-2	716-3	833-6	716-3	142-2	659-3	743-6	638-3	121-2	590-3	635-6	544-3	956-3	506-3	509-6	429-3
15.00	597-3	143-2	599-3	650-6	599-3	127-2	552-3	581-6	535-3	109-2	496-3	499-6	458-3	873-3	432-3	405-6	365-3

RELATIVE VELOCITY RESPONSE SPECTRUM
HELENA, MONTANA, EARTHQUAKE AFTERSHOCK NOV 21, 1935 - 2058 MST
11110296 35.004.0 FEDERAL BUILDING, HELENA, MONTANA COMP NORTH
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

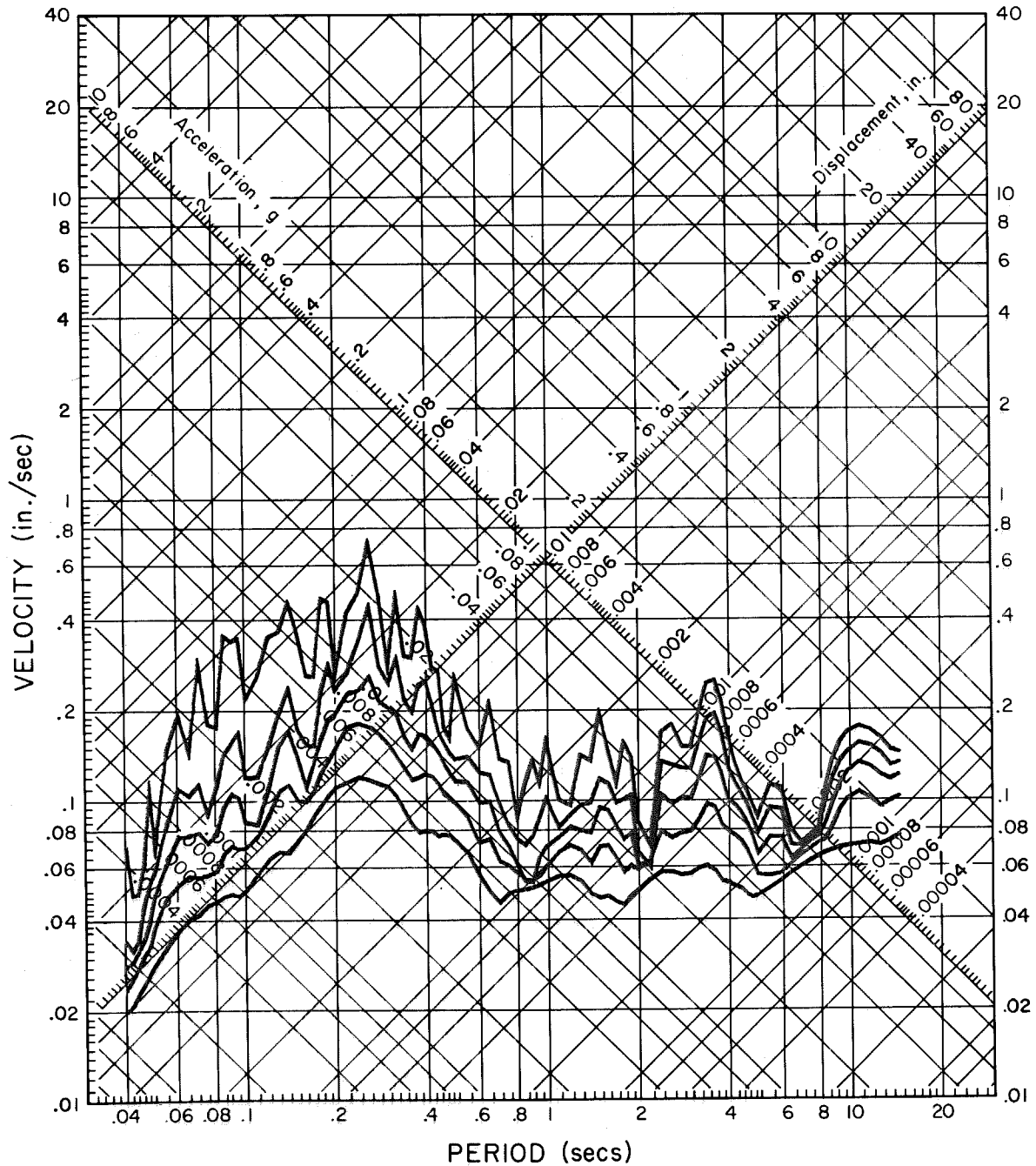


RESPONSE SPECTRUM

HELENA, MONTANA, EARTHQUAKE AFTERSHOCK NOV 21, 1935 - 2058 MST

IIIU296 35.004.0 FEDERAL BUILDING, HELENA, MONTANA COMP NORTH

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

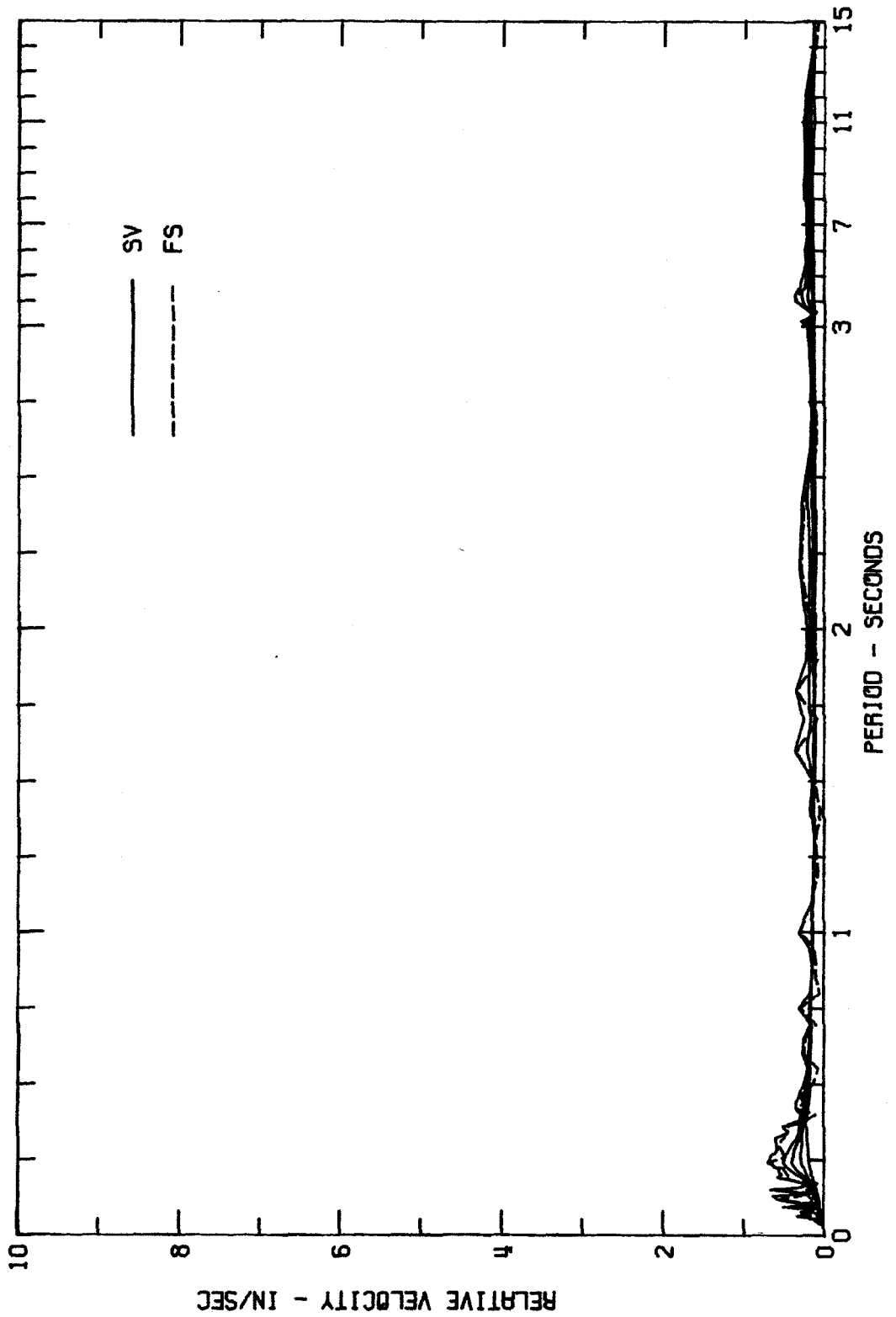


THE UNITS USED ARE SEC. FOR PER. IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT DAMPING = 2 PER CENT DAMPING = 5 PER CENT DAMPING = 10 PER CENT DAMPING = 20 PER CENT

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV				
0.75	936-4	158-4	135-4	288-5	133-3	971-5	104-3	177-5	813-4	832-5	100-3	152-5	697-4	717-5	937-4	138-5	601-4	579-5	808-4	123-5	485-4
0.80	776-4	110-4	957-4	176-5	869-4	938-5	942-4	149-5	737-4	767-5	916-4	124-5	602-4	723-5	871-4	123-5	568-4	632-5	776-4	119-5	496-4
0.85	111-3	152-4	116-3	215-5	112-3	952-5	839-4	135-5	704-4	722-5	827-4	103-5	533-4	728-5	802-4	110-5	538-4	677-5	738-4	114-5	500-4
0.90	134-3	193-4	137-3	243-5	134-3	108-4	778-4	136-5	754-4	755-5	780-4	976-6	527-4	765-5	768-4	104-5	534-4	726-5	711-4	110-5	507-4
0.95	729-4	169-4	118-3	192-5	112-3	131-4	909-4	149-5	873-4	972-5	812-4	110-5	643-4	842-5	773-4	102-5	557-4	783-5	706-4	108-5	518-4
1.00	117-3	247-4	145-3	253-5	155-3	159-4	985-4	163-5	100-3	110-4	837-4	113-5	695-4	946-5	775-4	104-5	594-4	847-5	721-4	106-5	532-4
1.10	157-4	174-4	106-3	147-5	995-4	141-4	950-4	119-5	805-4	130-4	870-4	112-5	747-4	116-4	819-4	107-5	668-4	970-5	752-4	103-5	554-4
1.20	583-4	181-4	114-3	129-5	951-4	169-4	966-4	120-5	889-4	154-4	917-4	112-5	809-4	134-4	854-4	103-5	703-4	106-4	769-4	988-6	558-4
1.30	826-4	290-4	139-3	175-5	140-3	197-4	107-3	119-5	956-4	162-4	963-4	100-5	785-4	140-4	882-4	931-6	677-4	110-4	768-4	910-6	534-4
1.40	986-4	298-4	135-3	155-5	133-3	216-4	116-3	113-5	972-4	171-4	108-3	900-6	771-4	136-4	984-4	790-6	612-4	108-4	838-4	811-6	484-4
1.50	144-3	462-4	183-3	210-5	193-3	279-4	123-3	127-5	117-3	223-4	115-3	102-5	937-4	165-4	104-3	772-6	695-4	111-4	887-4	705-6	469-4
1.60	143-3	366-4	149-3	146-5	143-3	286-4	124-3	114-5	112-3	233-4	117-3	941-6	918-4	177-4	106-3	732-6	698-4	121-4	915-4	603-6	476-4
1.70	143-4	302-4	125-3	107-5	111-3	262-4	120-3	931-6	971-4	219-4	114-3	778-6	809-4	171-4	106-3	616-6	634-4	123-4	924-4	510-6	456-4
1.80	152-3	441-4	153-3	139-5	153-3	286-4	115-3	904-6	999-4	210-4	110-3	666-6	772-4	181-4	996-4	522-6	601-4	144-4	904-4	443-6	444-4
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RELATIVE VELOCITY RESPONSE SPECTRUM
HELENA, MONTANA, EARTHQUAKE AFTERSHOCK NOV 21, 1935 - 2058 MST
1111U296 35.004.0 FEDERAL BUILDING, HELENA, MONTANA COMP EAST
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

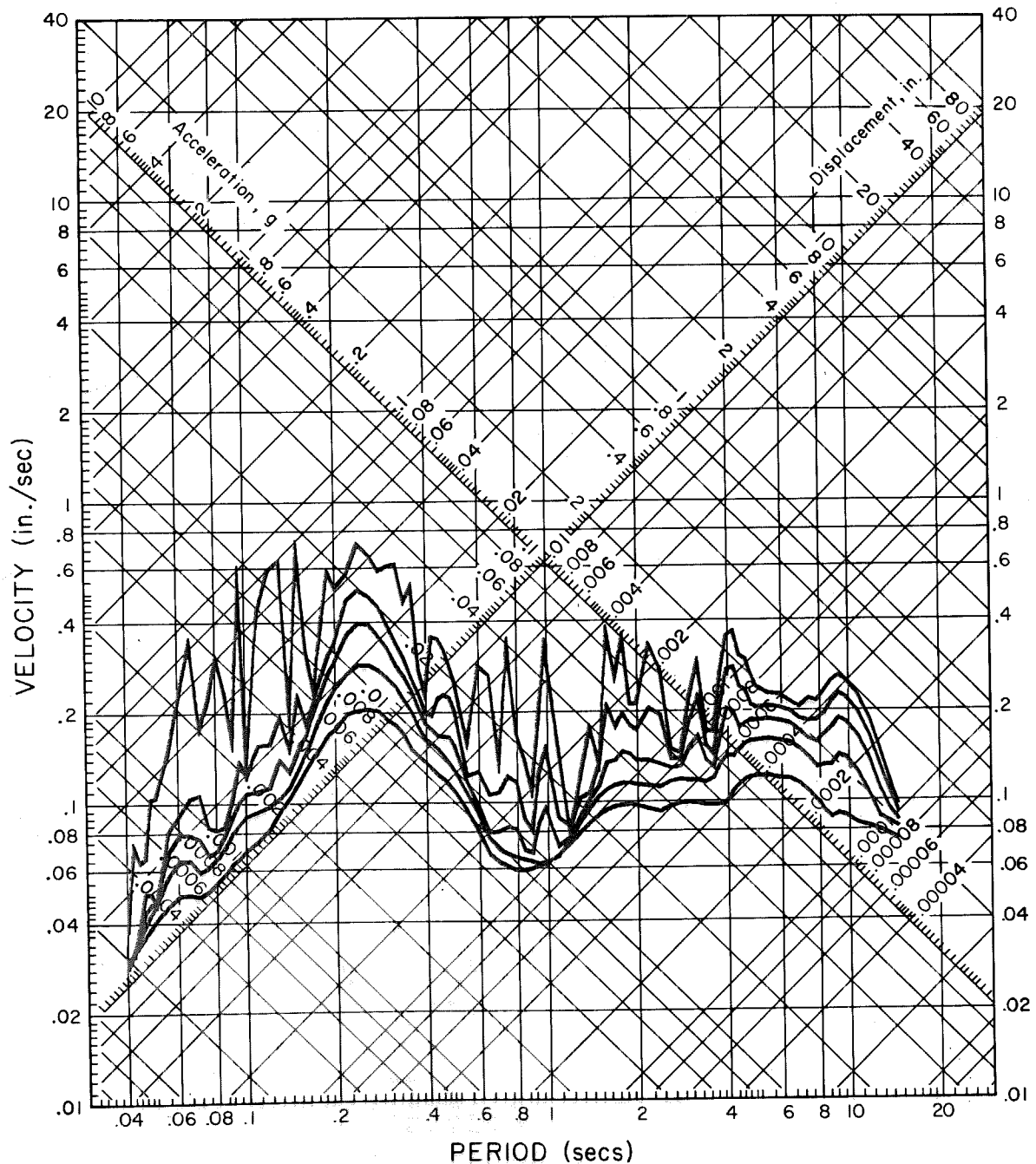


RESPONSE SPECTRUM

HELENA, MONTANA, EARTHQUAKE AFTERSHOCK NOV 21, 1935 - 2058 MST

IIIU296 35.004.0 FEDERAL BUILDING, HELENA, MONTANA COMP EAST

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

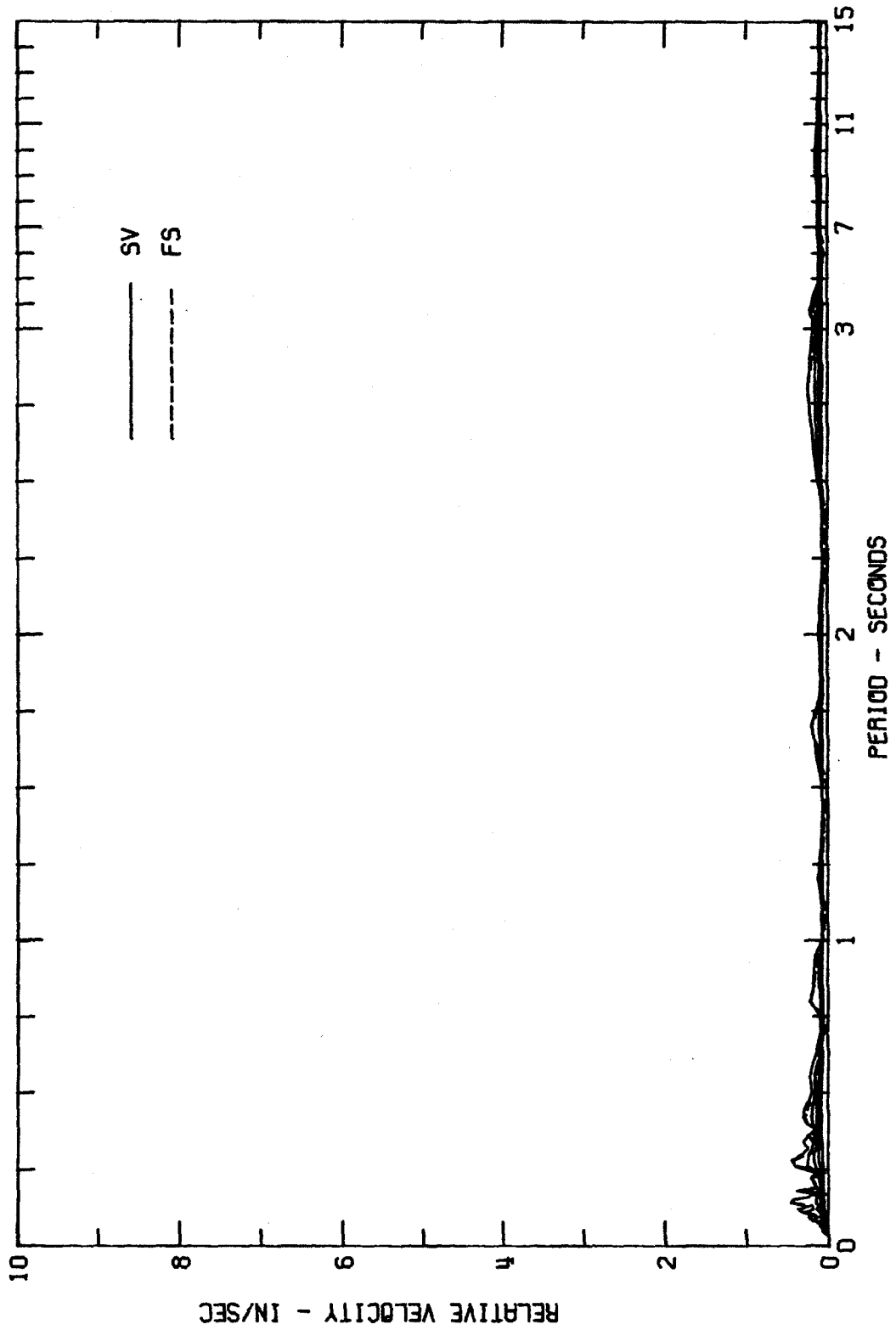


THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT DAMPING = 2 PER CENT DAMPING = 5 PER CENT DAMPING = 10 PER CENT DAMPING = 20 PER CENT

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.75	291-3	390-4	311-3	710-5	327-3	145-4	170-3	264-5	122-3	986-5	169-3	181-5	826-4	802-5	166-3	155-5	671-4
0.80	533-4	215-4	171-3	343-5	168-3	148-4	163-3	238-5	116-3	103-4	163-3	167-5	811-4	833-5	161-3	142-5	654-4
0.85	102-3	185-4	158-3	263-5	137-3	117-4	157-3	166-5	870-4	936-5	157-3	133-5	692-4	869-5	156-3	131-5	642-4
0.90	101-3	154-4	153-3	195-5	107-3	114-4	152-3	144-5	796-4	968-5	151-3	122-5	676-4	907-5	151-3	120-5	633-4
0.95	127-3	286-4	192-3	324-5	189-3	188-4	147-3	214-5	124-3	129-4	147-3	147-5	854-4	937-5	147-3	111-5	620-4
1.00	319-3	524-4	325-3	536-5	329-3	239-4	161-3	245-5	150-3	151-4	142-3	156-5	954-4	100-4	143-3	105-5	630-4
1.10	149-3	262-4	149-3	221-5	149-3	155-4	135-3	131-5	885-4	124-4	135-3	105-5	710-4	115-4	136-3	101-5	657-4
1.20	773-4	148-4	128-3	105-5	777-4	158-4	128-3	112-5	827-4	145-4	129-3	104-5	764-4	143-4	131-3	105-5	748-4
1.30	121-3	251-4	126-3	152-5	121-3	213-4	123-3	129-5	103-3	185-4	124-3	113-5	895-4	177-4	126-3	111-5	857-4
1.40	426-4	391-4	173-3	204-5	175-3	238-4	125-3	144-5	107-3	228-4	120-3	120-5	102-3	213-4	122-3	116-5	957-4
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1.60	364-3	928-4	374-3	370-5	364-3	527-4	222-3	210-5	207-3	343-4	146-3	138-5	135-3	279-4	116-3	117-5	109-3
1.70	782-4	697-4	264-3	246-5	257-3	478-4	179-3	169-5	176-3	370-4	124-3	132-5	136-3	306-4	114-3	113-5	113-3
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1.90	850-4	637-4	228-3	180-5	210-3	543-4	180-3	154-5	179-3	435-4	146-3	124-5	144-3	348-4	110-3	104-5	115-3
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2.20	295-3	115-3	318-3	245-5	331-3	715-4	189-3	151-5	204-3	478-4	148-3	101-5	136-3	394-4	128-3	857-6	112-3
2.40	265-3	104-3	289-3	185-5	273-3	740-4	213-3	131-5	193-3	507-4	159-3	906-6	132-3	427-4	138-3	781-6	111-3
2.60	100-3	620-4	179-3	938-6	149-3	617-4	158-3	866-6	137-3	534-4	158-3	821-6	129-3	481-4	140-3	756-6	116-3
2.80	120-3	643-4	169-3	840-6	144-3	617-4	158-3	809-6	138-3	581-4	149-3	772-6	130-3	526-4	141-3	727-6	118-3
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3.60	107-3	973-4	174-3	767-6	169-3	816-4	153-3	645-6	142-3	738-4	164-3	586-6	128-3	682-4	152-3	551-6	119-3
3.80	264-3	160-3	288-3	113-5	265-3	126-3	240-3	898-6	209-3	983-4	195-3	700-6	162-3	803-4	153-3	583-6	132-3
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4.80	168-3	200-3	293-3	891-6	262-3	160-3	234-3	711-6	209-3	141-3	201-3	636-6	184-3	120-3	165-3	557-6	158-3
5.00	164-3	191-3	273-3	783-6	240-3	162-3	230-3	667-6	204-3	147-3	203-3	611-6	185-3	126-3	167-3	544-6	158-3
5.50	228-3	200-3	237-3	676-6	228-3	181-3	217-3	613-6	206-3	164-3	194-3	559-6	187-3	140-3	163-3	491-6	160-3
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8.00	201-3	273-3	252-3	436-6	214-3	236-3	223-3	378-6	185-3	199-3	191-3	322-6	156-3	164-3	178-3	272-6	129-3
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RELATIVE VELOCITY RESPONSE SPECTRUM
HELENA, MONTANA, EARTHQUAKE AFTERSHOCK NOV 21, 1935 - 2058 MST
111U296 35.004.0 FEDERAL BUILDING, HELENA, MONTANA COMP UP
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

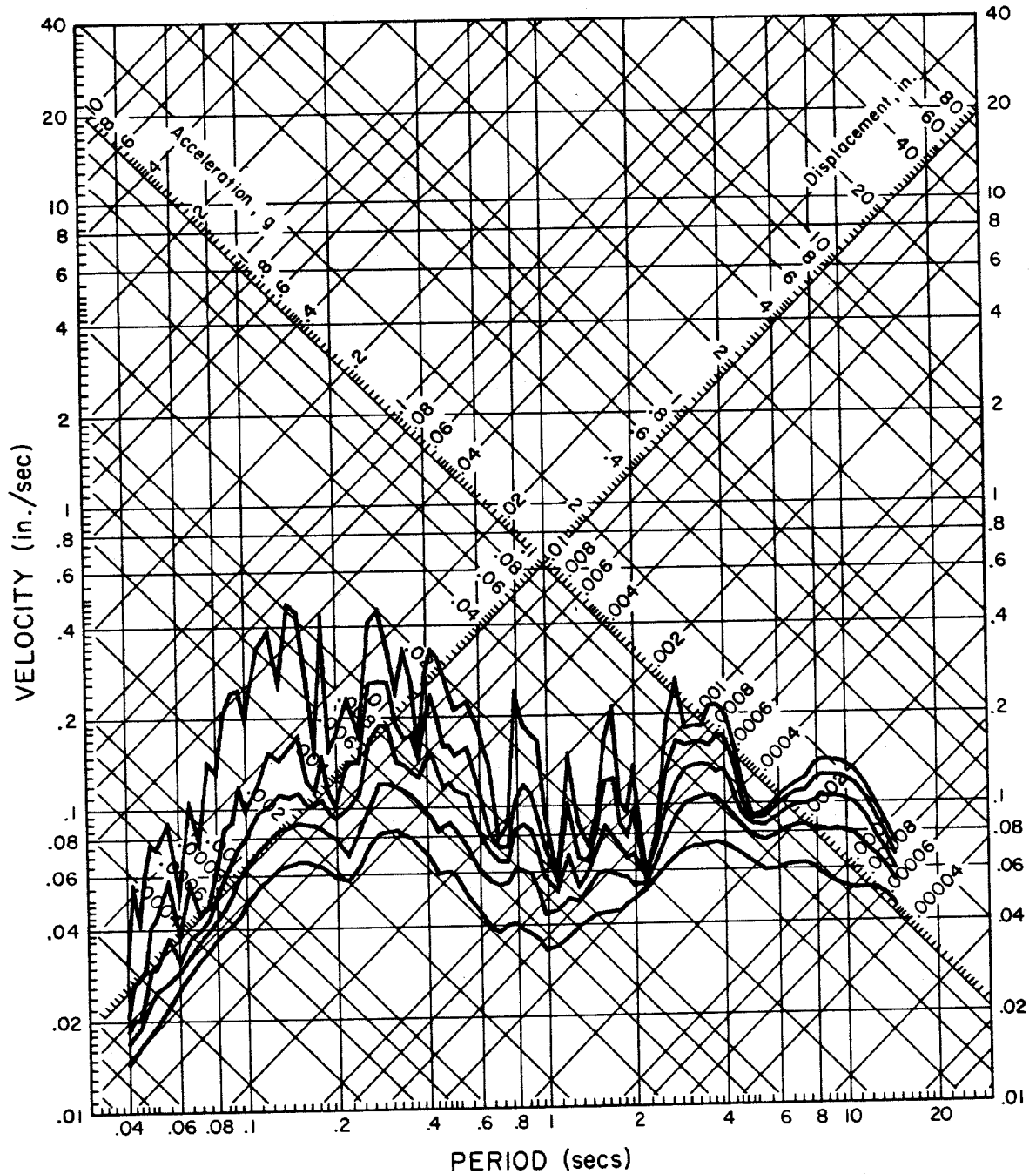


RESPONSE SPECTRUM

HELENA, MONTANA, EARTHQUAKE AFTERSHOCK NOV 21, 1935 - 2058 MST

111U296 35.004.0 FEDERAL BUILDING, HELENA, MONTANA COMP UP

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

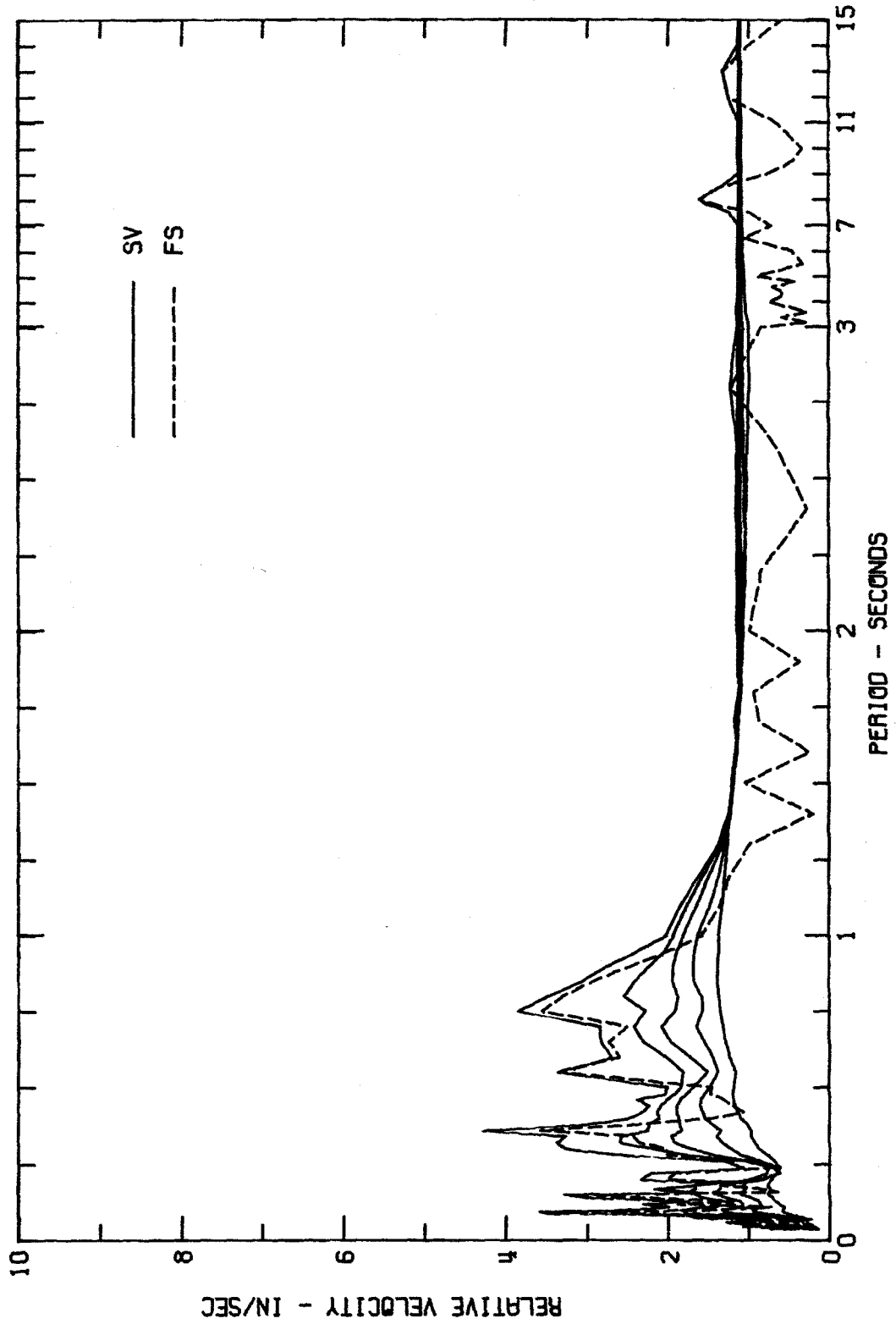


HELENA, MONTANA, EARTHQUAKE AFTERSHOCK NOV 21, 1935 - 2058 MST
 IIIU296 35.004.0 FEDERAL BUILDING, HELENA, MONTANA COMP UP

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT										DAMPING = 2 PER CENT										DAMPING = 5 PER CENT										DAMPING = 10 PER CENT										DAMPING = 20 PER CENT									
PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV																
0.040	180-4	196-6	265-4	125-4	308-4	129-6	181-4	835-5	203-4	116-6	139-4	741-5	183-4	106-6	122-4	675-5	167-4	911-7	851-5	591-5	143-4																												
0.042	257-4	360-6	522-4	208-4	538-4	175-6	241-4	102-4	263-4	134-6	173-4	782-5	200-4	119-6	132-4	700-5	178-4	102-6	903-5	609-5	152-4																												
0.044	151-4	293-6	404-4	155-4	419-4	192-6	224-4	102-4	274-4	140-6	178-4	742-5	201-4	132-6	141-4	714-5	189-4	114-6	972-5	619-5	164-4																												
0.046	427-4	451-6	584-4	218-6	616-4	218-6	230-4	105-4	299-4	178-6	163-4	868-5	243-4	155-6	150-4	745-5	211-4	126-6	104-4	627-5	173-4																												
0.048	704-4	581-6	736-4	258-4	760-4	312-6	293-4	138-4	408-4	224-6	200-4	999-5	293-4	176-6	164-4	797-5	230-4	140-6	107-4	638-5	184-4																												
0.050	618-4	584-6	713-4	238-4	734-4	343-6	401-4	141-4	431-4	235-6	268-4	961-5	296-4	198-6	179-4	812-5	249-4	152-6	109-4	638-5	192-4																												
0.055	593-4	776-6	810-4	262-4	886-4	497-6	460-4	168-4	568-4	325-6	261-4	108-4	371-4	232-6	179-4	803-5	265-4	194-6	128-4	676-5	222-4																												
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0.380	103-3	925-5	161-3	655-5	153-3	873-5	152-3	620-5	144-3	757-5	139-3	535-5	125-3	626-5	121-3	455-5	103-3	448-5	939-4	346-5	742-4																												
0.400	266-3	172-4	270-3	110-4	271-3	123-4	200-3	783-5	193-3	898-5																																							

RELATIVE VELOCITY RESPONSE SPECTRUM
HELENA, MONTANA, EARTHQUAKE AFTERSHOCK NOV 28, 1935 - 0742 MST
111U297 35.003.0 FEDERAL BUILDING, HELENA, MONTANA COMP NORTH
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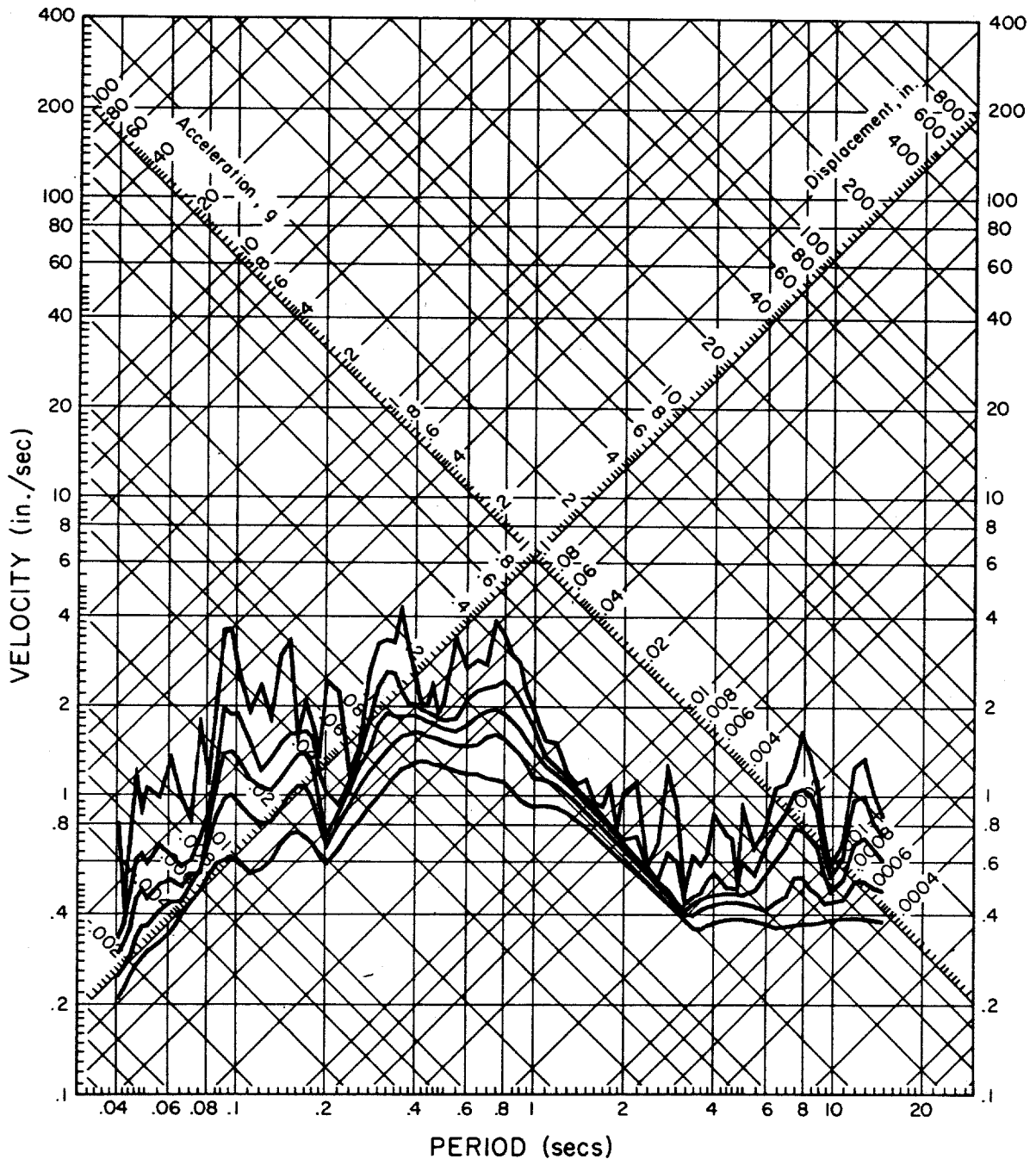


RESPONSE SPECTRUM

HELENA, MONTANA, EARTHQUAKE AFTERSHOCK NOV 28, 1935 - 0742 MST

111U297 35.003.0 FEDERAL BUILDING, HELENA, MONTANA COMP NORTH

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



HELENA, MONTANA, EARTHQUAKE AFTERSHOCK NOV 28, 1935 - 0742 MST
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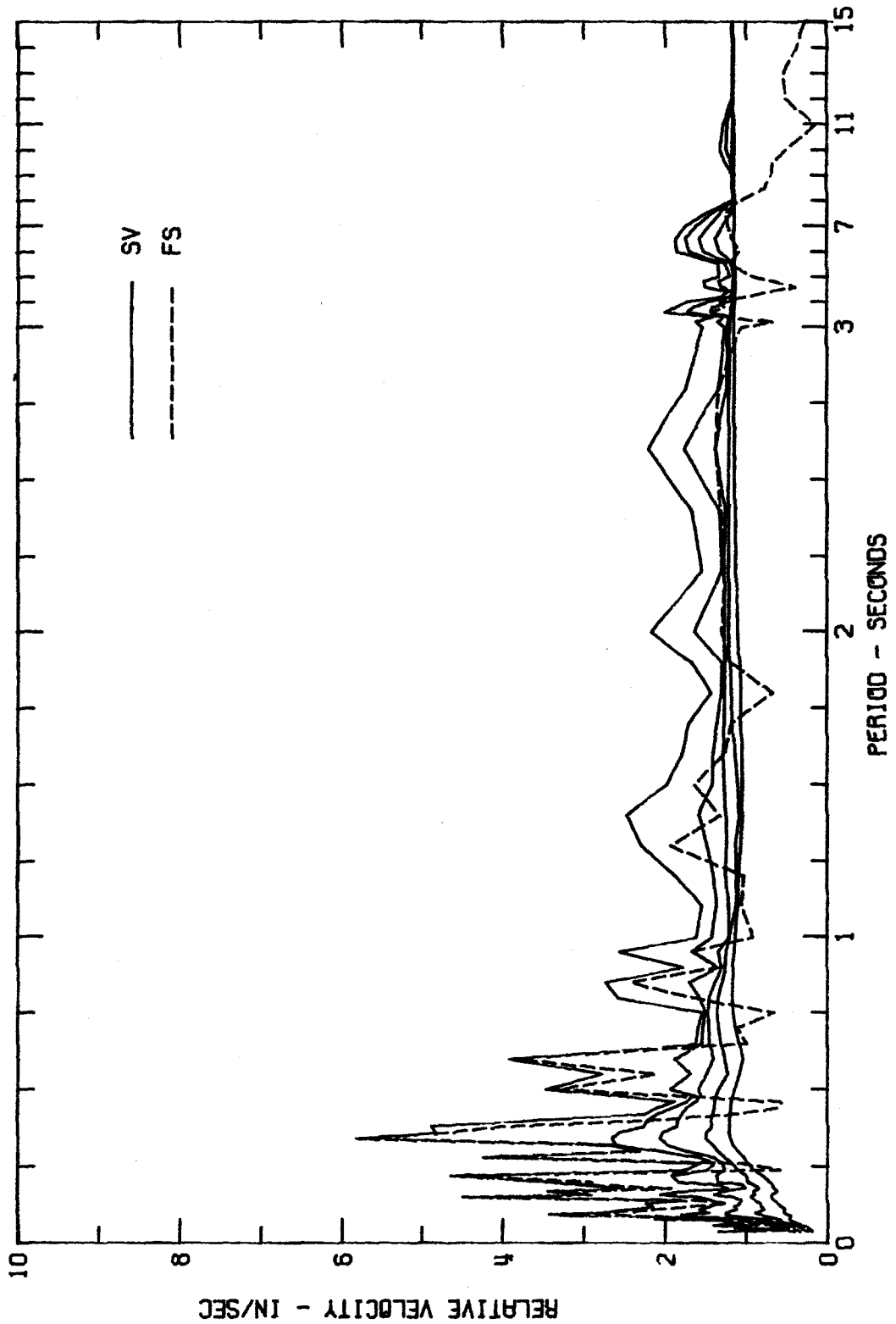
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PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
0.040	571-3	505-5	737-3	323-3	794-3	209-5	250-3	135-3	329-3	186-5	220-3	121-3	292-3	156-5	179-3	102-3	246-3	131-5	144-3	865-4	207-3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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0.75	356-2	457-3	386-2	831-4	383-2	277-3	228-2	506-4	232-2	231-3	191-2	425-4	194-2	189-3	157-2	354-4	159-2	134-3	136-2	266-4	112-2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											

RELATIVE VELOCITY RESPONSE SPECTRUM
HELENA, MONTANA, EARTHQUAKE AFTERSHOCK NOV 28, 1935 - 0742 MST
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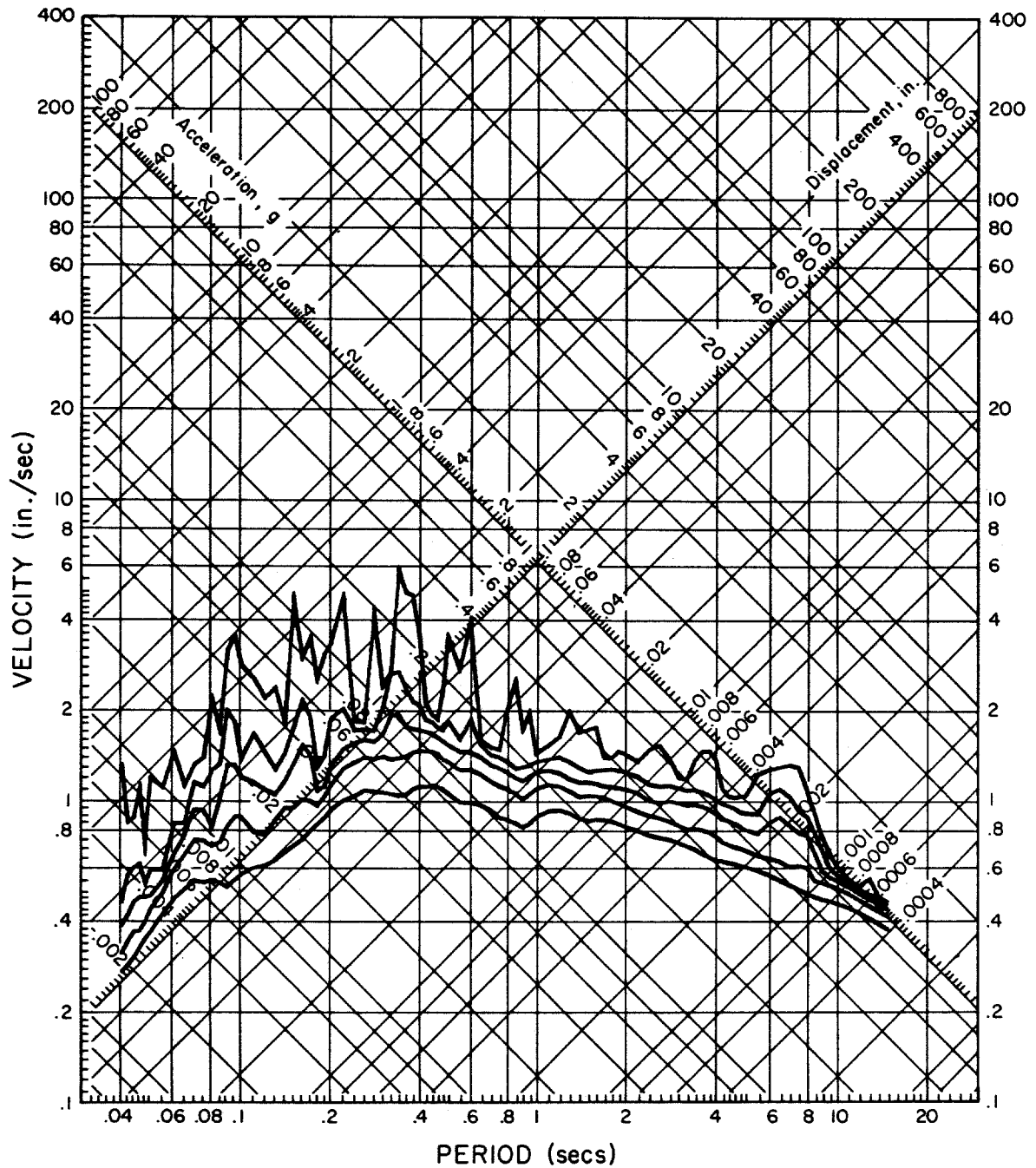


RESPONSE SPECTRUM

HELENA, MONTANA, EARTHQUAKE AFTERSHOCK NOV 28, 1935 - 0742 MST

IIIU297 35.003.0 FEDERAL BUILDING, HELENA, MONTANA COMP EAST

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

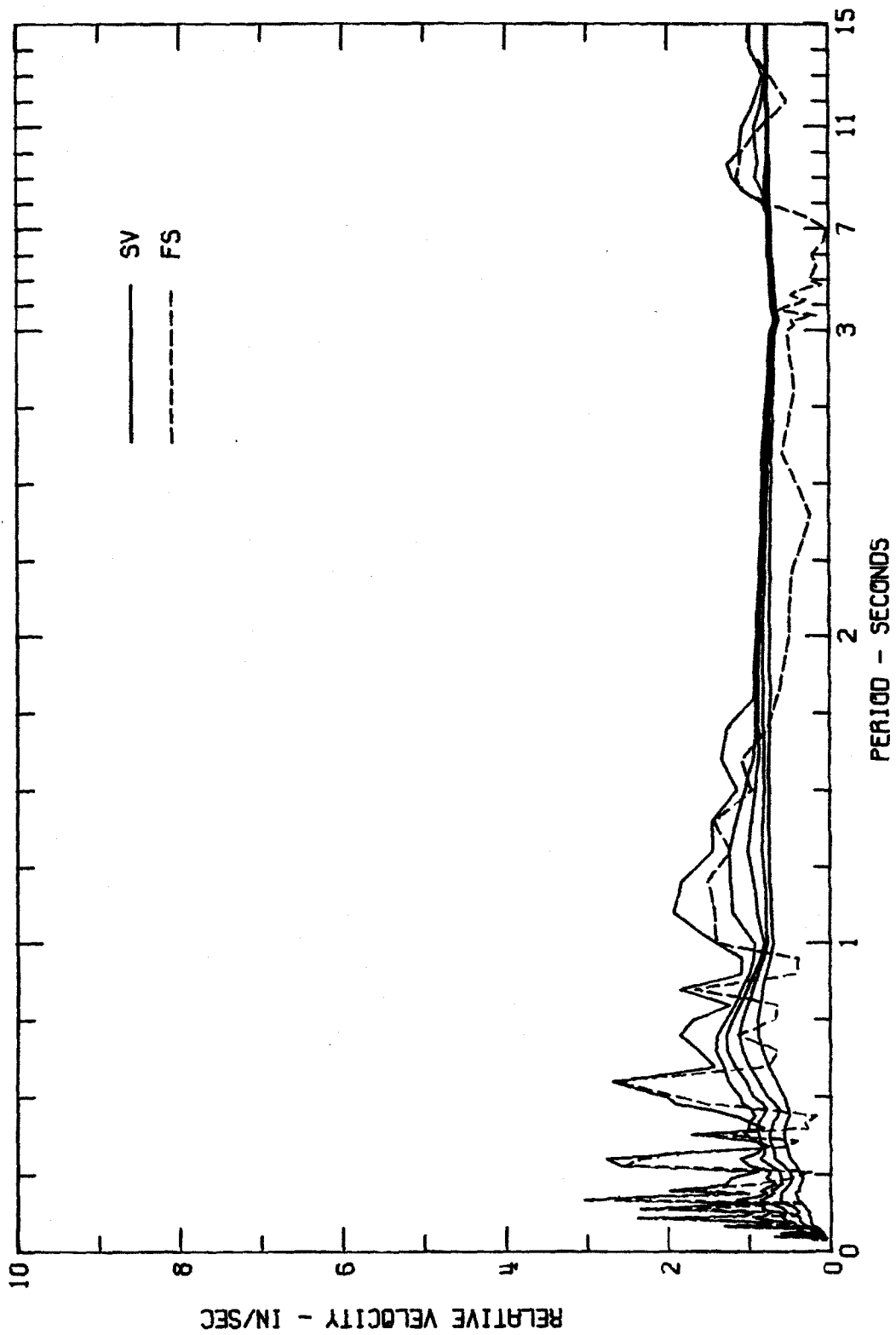
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0.040	116-2	829-5	134-2	529-3	130-2	289-5	414-3	186-3	455-3	243-5	343-3	156-3	382-3	197-5	245-3	131-3	309-3
0.042	582-3	558-5	790-3	324-3	836-3	376-5	506-3	220-3	563-3	277-5	367-3	164-3	415-3	228-5	271-3	131-3	341-3
0.044	533-3	606-5	763-3	320-3	666-3	414-5	530-3	220-3	593-3	320-5	393-3	169-3	458-3	256-5	291-3	136-3	365-3
0.046	906-3	795-5	981-3	384-3	108-2	445-5	564-3	214-3	609-3	347-5	416-3	169-3	474-3	269-5	315-3	135-3	367-3
0.048	515-3	535-5	639-3	237-3	700-3	400-5	490-3	177-3	524-3	361-5	422-3	160-3	473-3	301-5	323-3	138-3	395-3
0.050	979-3	937-5	115-2	383-3	117-2	462-5	545-3	188-3	581-3	381-5	413-3	156-3	479-3	344-5	315-3	142-3	432-3
0.055	100-2	956-5	106-2	323-3	109-2	509-5	476-3	173-3	582-3	472-5	432-3	162-3	539-3	432-5	365-3	151-3	493-3
0.060	111-2	136-4	142-2	388-3	143-2	794-5	749-3	223-3	831-3	627-5	540-3	177-3	657-3	560-5	438-3	158-3	586-3
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0.070	838-3	145-4	127-2	303-3	130-2	126-4	997-3	264-3	113-2	102-4	757-3	215-3	923-3	818-5	587-3	172-3	734-3
0.075	659-3	164-4	128-2	298-3	137-2	131-4	105-2	238-3	110-2	109-4	794-3	196-3	917-3	867-5	638-3	162-3	726-3
0.080	213-2	273-4	214-2	437-3	215-2	158-4	110-2	251-3	124-2	103-4	766-3	167-3	809-3	891-5	599-3	143-3	699-3
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0.090	233-2	452-4	311-2	571-3	315-2	282-4	180-2	356-3	197-2	186-4	120-2	236-3	130-2	116-4	784-3	150-3	814-3
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0.110	216-2	442-4	244-2	373-3	252-2	288-4	159-2	245-3	164-2	199-4	112-2	166-3	113-2	136-4	794-3	122-3	779-3
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0.180	192-2	716-4	250-2	226-3	250-2	364-4	122-2	114-3	127-2	305-4	100-2	960-4	106-2	272-4	850-3	865-4	952-3
0.190	298-2	921-4	305-2	261-3	304-2	420-4	135-2	119-3	139-2	333-4	104-2	959-4	110-2	311-4	903-3	893-4	102-2
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0.420	112-2	139-3	224-2	806-4	208-2	123-3	208-2	711-4	184-2	112-3	179-2	649-4	167-2	966-4	141-2	580-4	144-2
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0.460	570-3	135-3	188-2	653-4	184-2	127-3	174-2	619-4	173-2	117-3	162-2	576-4	160-2	103-3	139-2	508-4	141-2
0.480	185-2	173-3	252-2	771-4	227-2	130-3	164-2	576-4	170-2	119-3	156-2	534-4	156-2	104-3	137-2	480-4	136-2
0.500	333-2	277-3	348-2	113-3	348-2	144-3	194-2	591-4	181-2	121-3	159-2	497-4	152-2	106-3	134-2	449-4	133-2
0.550	211-2	237-3	277-2	803-4	271-2	138-3	169-2	467-4	158-2	126-3	149-2	429-4	144-2	109-3	123-2	375-4	125-2
0.600	388-2	374-3	393-2	106-3	392-2	176-3	189-2	499-4	184-2	137-3	141-2	394-4	143-2	120-3	127-2	345-4	125-2
0.650	988-3	163-3	161-2	395-4	157-2	155-3	154-2	377-4	150-2	142-3	145-2	348-4	138-2	125-3	131-2	316-4	121-2
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THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
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																	DAMPING = 20 PER CENT
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0.80	167-2	258-3	259-2	413-4	203-2	169-3	158-2	270-4	133-2	156-3	146-2	254-4	122-2	137-3	135-2	227-4	108-2
0.85	243-2	336-3	274-2	475-4	248-2	171-3	171-2	243-4	127-2	159-3	139-2	228-4	118-2	141-3	130-2	209-4	104-2
0.90	135-2	244-3	177-2	308-4	170-2	183-3	134-2	232-4	128-2	165-3	130-2	211-4	115-2	143-3	125-2	190-4	100-2
0.95	167-2	294-3	257-2	333-4	194-2	196-3	167-2	223-4	130-2	181-3	134-2	207-4	119-2	159-3	124-2	187-4	105-2
1.00	919-3	226-3	161-2	231-4	142-2	212-3	142-2	217-4	133-2	196-3	121-2	202-4	123-2	173-3	120-2	182-4	109-2
1.10	106-2	265-3	155-2	224-4	151-2	238-3	137-2	201-4	136-2	193-3	122-2	188-4	125-2	196-3	112-2	171-4	112-2
1.20	102-2	309-3	187-2	219-4	162-2	265-3	140-2	188-4	139-2	234-3	125-2	168-4	122-2	211-3	111-2	157-4	110-2
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1.40	132-2	372-3	248-2	194-4	167-2	285-3	159-2	149-4	128-2	255-3	125-2	133-4	114-2	228-3	108-2	126-4	102-2
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6.50	117-2	132-2	187-2	321-5	128-2	112-2	175-2	273-5	109-2	906-3	158-2	222-5	876-3	649-3	138-2	164-5	627-3
7.00	122-2	145-2	175-2	304-5	130-2	114-2	162-2	240-5	103-2	920-3	146-2	193-5	826-3	672-3	129-2	147-5	603-3
7.50	126-2	153-2	150-2	279-5	128-2	110-2	142-2	200-5	922-3	934-3	132-2	171-5	782-3	724-3	118-2	135-5	606-3
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8.50	767-3	122-2	116-2	273-5	908-3	105-2	116-2	152-5	780-3	905-3	116-2	139-5	669-3	734-3	115-2	123-5	542-3
9.00	687-3	109-2	116-2	137-5	762-3	983-3	116-2	125-5	686-3	842-3	116-2	116-5	587-3	765-3	115-2	110-5	534-3
9.50	676-3	102-2	126-2	116-5	677-3	910-3	118-2	103-5	602-3	844-3	116-2	974-6	558-3	793-3	115-2	941-6	524-3
10.00	513-3	980-3	132-2	100-5	615-3	909-3	124-2	933-6	571-3	869-3	116-2	909-6	546-3	819-3	115-2	884-6	514-3
11.00	150-3	964-3	128-2	815-6	550-3	942-3	123-2	802-6	538-3	911-3	116-2	793-6	520-3	863-3	115-2	782-6	493-3
12.00	517-3	999-3	116-2	709-6	523-3	976-3	116-2	698-6	511-3	945-3	116-2	695-6	495-3	899-3	115-2	694-6	470-3
13.00	550-3	114-2	116-2	690-6	551-3	101-2	116-2	617-6	490-3	979-3	116-2	614-6	473-3	929-3	115-2	619-6	449-3
14.00	387-3	107-2	116-2	561-6	483-3	105-2	116-2	551-6	471-3	101-2	116-2	545-6	456-3	960-3	115-2	556-6	431-3
15.00	277-3	110-2	116-2	503-6	463-3	108-2	116-2	494-6	453-3	104-2	116-2	487-6	439-3	993-3	115-2	502-6	416-3

RELATIVE VELOCITY RESPONSE SPECTRUM
HELENA, MONTANA, EARTHQUAKE AFTERSHOCK NOV 28, 1935 - 0742 MST
1111U297 35.003.0 FEDERAL BUILDING, HELENA, MONTANA COMP UP
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

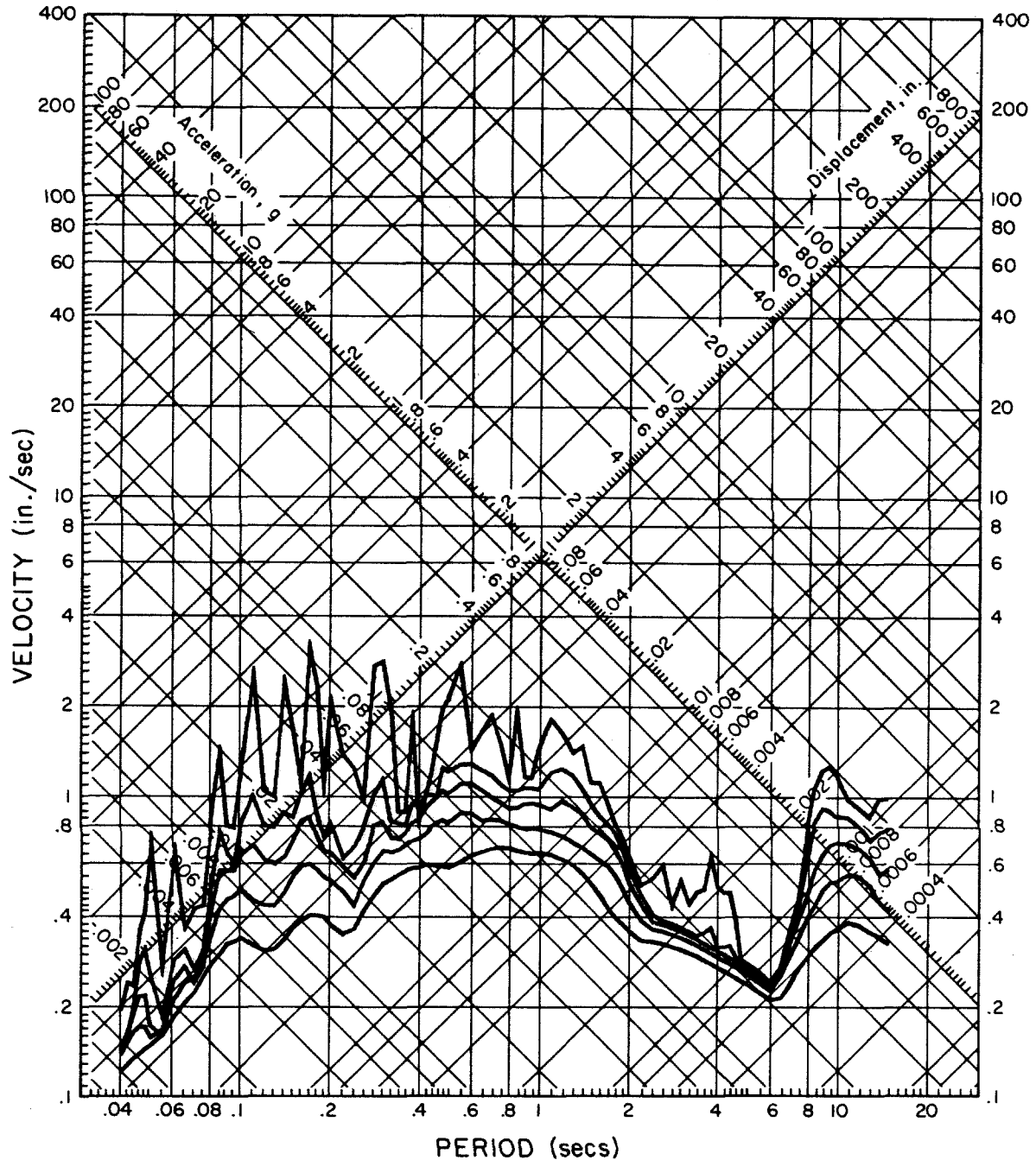


RESPONSE SPECTRUM

HELENA, MONTANA, EARTHQUAKE AFTERSHOCK NOV 28, 1935 - 0742 MST

IIIU297 35.003.0 FEDERAL BUILDING, HELENA, MONTANA COMP UP

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



HELENA, MONTANA, EARTHQUAKE AFTERSHOCK NOV 28, 1935 - 0742 MST
 IITU297 35.003.0 FEDERAL BUILDING, HELENA, MONTANA COMP UP

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.040	609-4	121-5	178-3	776-4	190-3	881-6	103-3	566-4	138-3	909-6	750-4	590-4	142-3	863-6	719-4	562-4	135-3
0.042	111-3	157-5	226-3	914-4	236-3	101-5	101-3	588-4	151-3	106-5	873-4	614-4	159-3	992-6	807-4	569-4	148-3
0.044	457-4	160-5	173-3	849-4	229-3	138-5	118-3	728-4	197-3	131-5	111-3	690-4	187-3	112-5	899-4	600-4	160-3
0.046	679-4	261-5	281-3	126-3	357-3	203-5	198-3	989-4	278-3	155-5	137-3	755-4	211-3	122-5	968-4	602-4	167-3
0.048	246-3	312-5	392-3	138-3	409-3	233-5	231-3	103-3	305-3	162-5	145-3	727-4	212-3	127-5	106-3	572-4	167-3
0.050	546-3	549-5	690-3	224-3	690-3	199-5	154-3	820-4	250-3	134-5	161-3	558-4	168-3	123-5	116-3	512-4	154-3
0.055	173-3	231-5	245-3	783-4	264-3	158-5	154-3	538-4	180-3	138-5	132-3	470-4	158-3	143-5	112-3	488-4	163-3
0.060	571-3	614-5	620-3	174-3	643-3	268-5	202-3	764-4	281-3	229-5	140-3	655-4	240-3	197-5	118-3	574-4	206-3
0.065	164-3	370-5	315-3	896-4	358-3	314-5	216-3	760-4	303-3	276-5	167-3	669-4	267-3	243-5	137-3	590-4	235-3
0.070	228-3	463-5	395-3	968-4	416-3	291-5	238-3	609-4	261-3	262-5	183-3	556-4	236-3	272-5	149-3	581-4	244-3
0.075	161-3	509-5	361-3	926-4	426-3	361-5	241-3	659-4	302-3	320-5	205-3	582-4	268-3	330-5	165-3	614-4	276-3
0.080	707-3	110-4	857-3	177-3	869-3	661-5	422-3	105-3	519-3	533-5	298-3	849-4	419-3	438-5	235-3	719-4	344-3
0.085	124-2	185-4	132-2	262-3	137-2	101-4	640-3	143-3	748-3	753-5	441-3	106-3	557-3	563-5	319-3	808-4	416-3
0.090	694-3	111-4	747-3	140-3	778-3	906-5	541-3	114-3	632-3	795-5	448-3	100-3	555-3	694-5	345-3	810-4	448-3
0.095	457-3	116-4	748-3	132-3	772-3	887-5	518-3	101-3	586-3	844-5	474-3	724-4	587-3	883-5	402-3	559-4	426-3
0.100	102-2	185-4	117-2	189-3	116-2	125-4	703-3	128-3	788-3	100-4	540-3	103-3	632-3	769-5	389-3	795-4	483-3
0.110	216-2	436-4	239-2	368-3	249-2	172-4	935-3	146-3	986-3	117-4	608-3	101-3	673-3	776-5	398-3	664-4	443-3
0.120	421-3	195-4	103-2	138-3	102-2	149-4	818-3	106-3	781-3	114-4	621-3	830-4	601-3	817-5	431-3	602-4	428-3
0.130	598-3	202-4	950-3	122-3	977-3	160-4	738-3	968-4	774-3	121-4	541-3	724-4	587-3	883-5	402-3	559-4	426-3
0.140	196-2	526-4	236-2	274-3	236-2	192-4	859-3	101-3	865-3	138-4	588-3	725-4	620-3	105-4	435-3	567-4	473-3
0.150	116-2	386-4	161-2	175-3	162-2	199-4	832-3	914-4	837-3	169-4	698-3	773-4	710-3	128-4	519-3	593-4	537-3
0.160	387-2	274-4	101-2	109-3	107-2	256-4	107-2	102-3	100-2	226-4	809-3	830-4	814-3	147-4	597-3	594-4	577-3
0.170	268-2	832-4	305-2	294-3	307-2	313-4	116-2	110-3	115-2	226-4	763-3	813-4	837-3	158-4	624-3	567-4	585-3
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0.190	990-3	323-4	106-2	916-4	106-2	217-4	777-3	621-4	720-3	195-4	692-3	550-4	644-3	159-4	602-3	458-4	528-3
0.200	189-2	653-4	199-2	166-3	205-2	255-4	868-3	658-4	802-3	203-4	724-3	527-4	637-3	164-4	580-3	417-4	515-3
0.220	927-3	474-4	128-2	100-3	135-2	214-4	672-3	457-4	612-3	201-4	607-3	437-4	576-3	167-4	500-3	366-4	478-3
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0.260	243-3	396-4	891-3	600-4	958-3	325-4	740-3	489-4	786-3	249-4	637-3	373-4	604-3	216-4	514-3	326-4	522-3
0.280	254-2	119-3	260-2	150-3	267-2	439-4	101-2	575-4	985-3	350-4	751-3	463-4	785-3	265-4	582-3	357-4	594-3
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0.550	267-2	236-3	169-2	791-4	269-2	109-3	126-2	370-4	125-2	947-4	104-2	323-4	108-2	756-4	880-3	264-4	864-3
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THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT DAMPING = 2 PER CENT DAMPING = 5 PER CENT DAMPING = 10 PER CENT DAMPING = 20 PER CENT

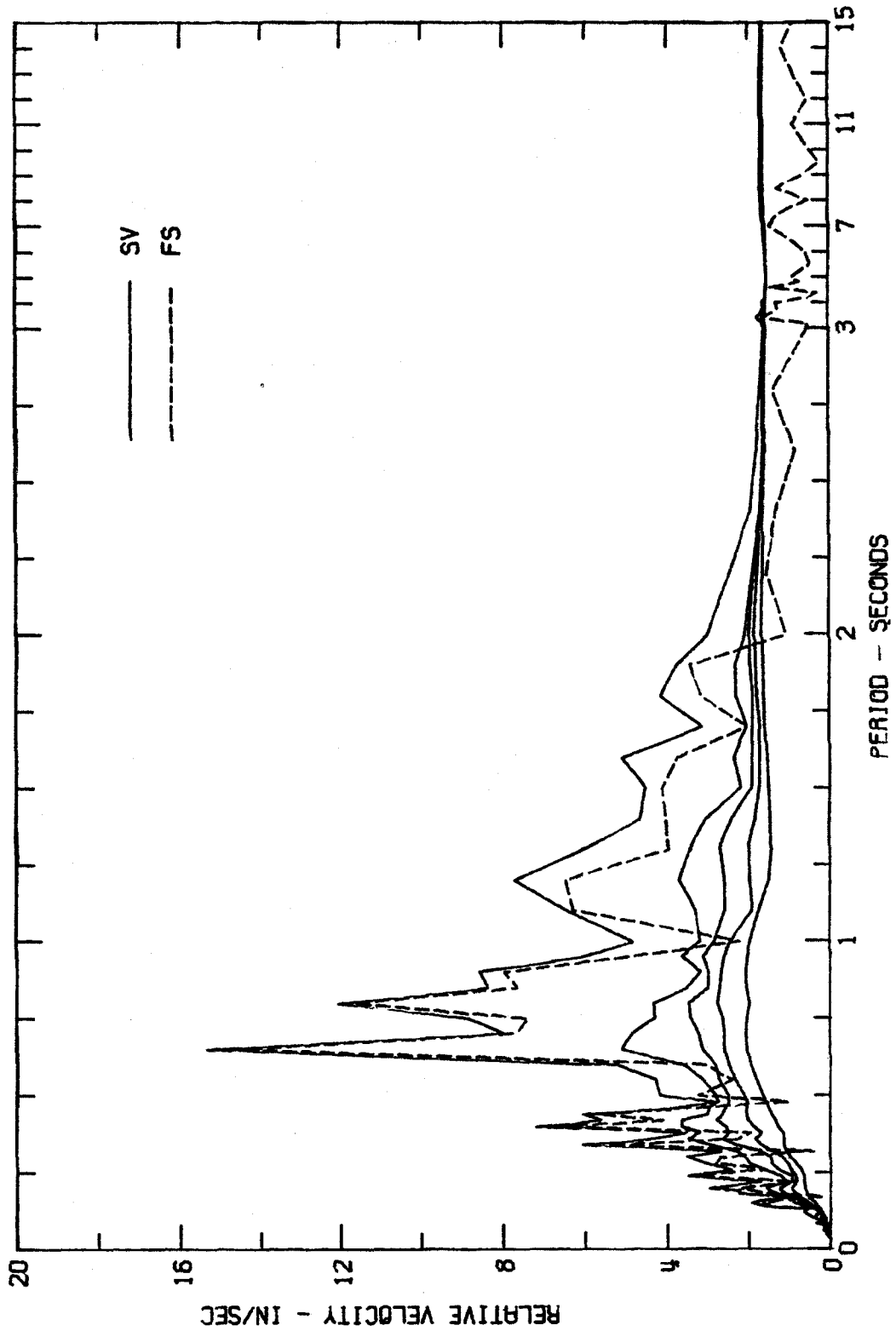
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RELATIVE VELOCITY RESPONSE SPECTRUM

HUMBOLDT BAY EARTHQUAKE FEB 6, 1937 - 2042 PST

111U298 37.001.0 CITY HALL • ALLUVIUM, FERNDALE, CALIFORNIA COMP N45W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

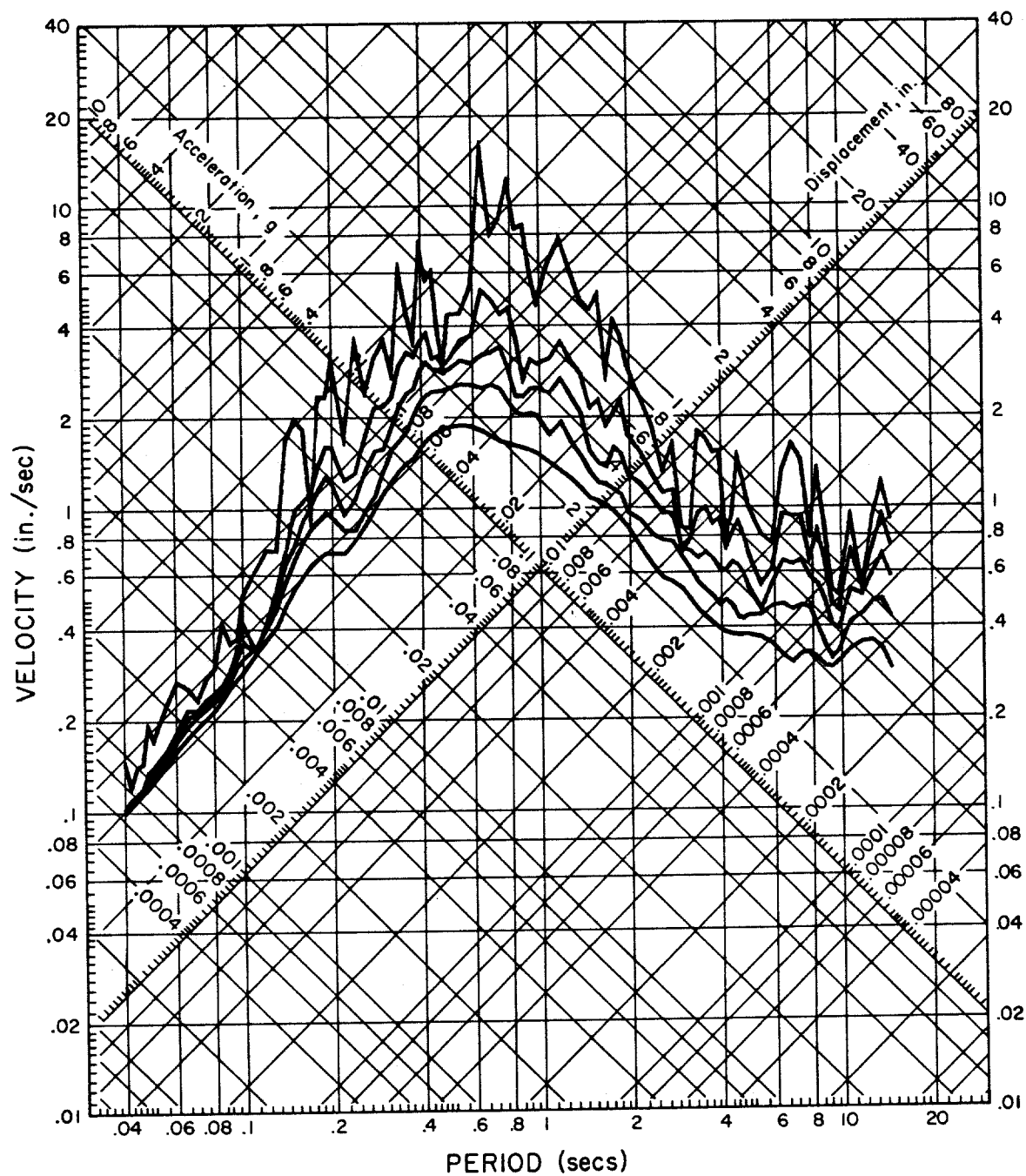


RESPONSE SPECTRUM

HUMBOLDT BAY EARTHQUAKE FEB 6, 1937 - 2042 PST

111U298 37.001.0 CITY HALL, ALLUVIUM, FERNDALE, CALIFORNIA COMP N45H

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



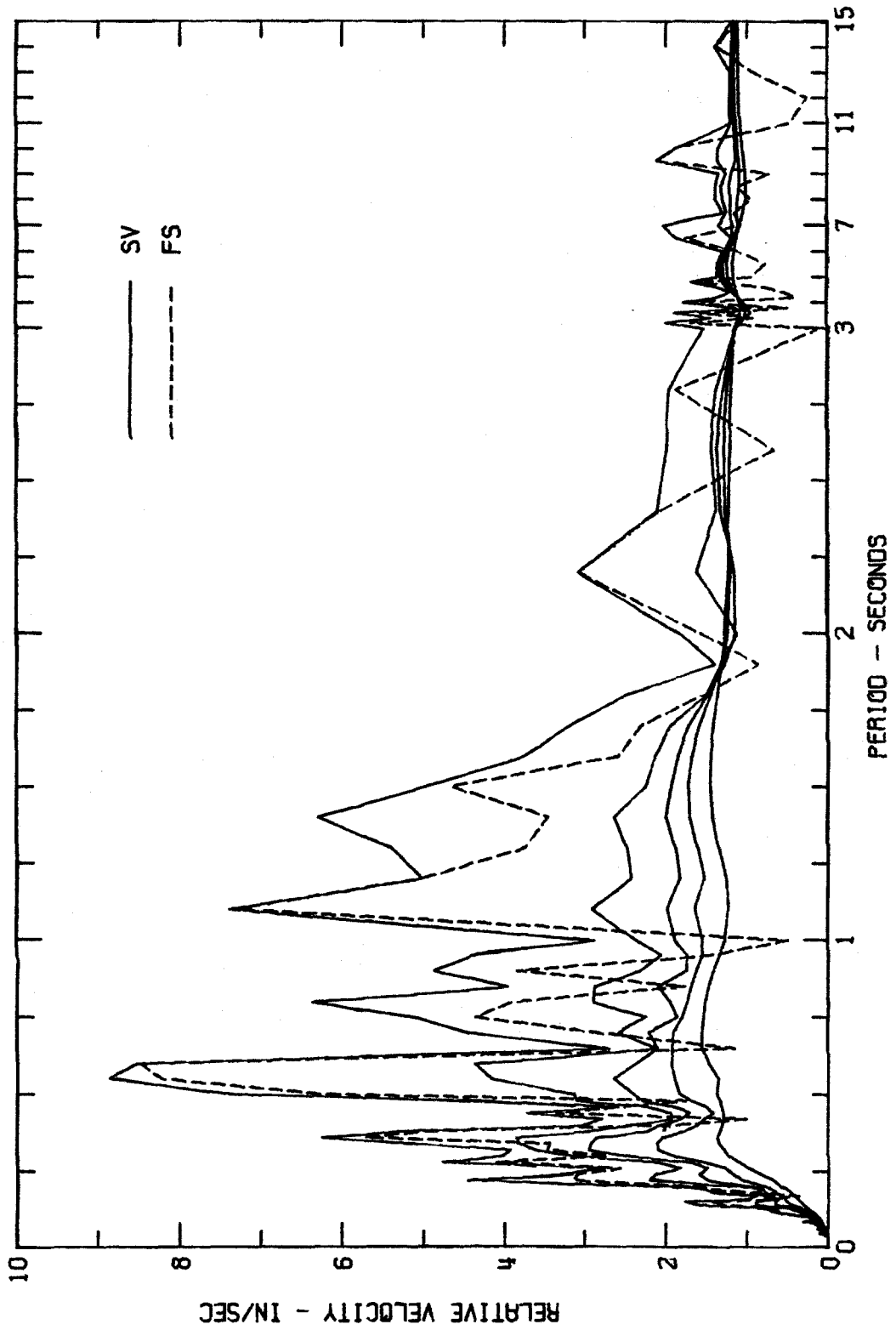
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IIIU298 37.001.0 CITY HALL: ALLUVIUM, FERNDALE, CALIFORNIA COMP N45W

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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DAMPING = 2 PER CENT																	
DAMPING = 5 PER CENT																	
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0.90	799-2	123-2	859-2	155-3	861-2	376-3	320-2	475-4	262-2	332-3	301-2	422-4	232-2	288-3	268-2	371-4	201-2
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RELATIVE VELOCITY RESPONSE SPECTRUM
HUMBOLDT BAY EARTHQUAKE FEB 6, 1937 - 2042 PST
111U298 37.001.0 CITY HALL, ALLUVIUM, FERNDALE, CALIFORNIA COMP S45W
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



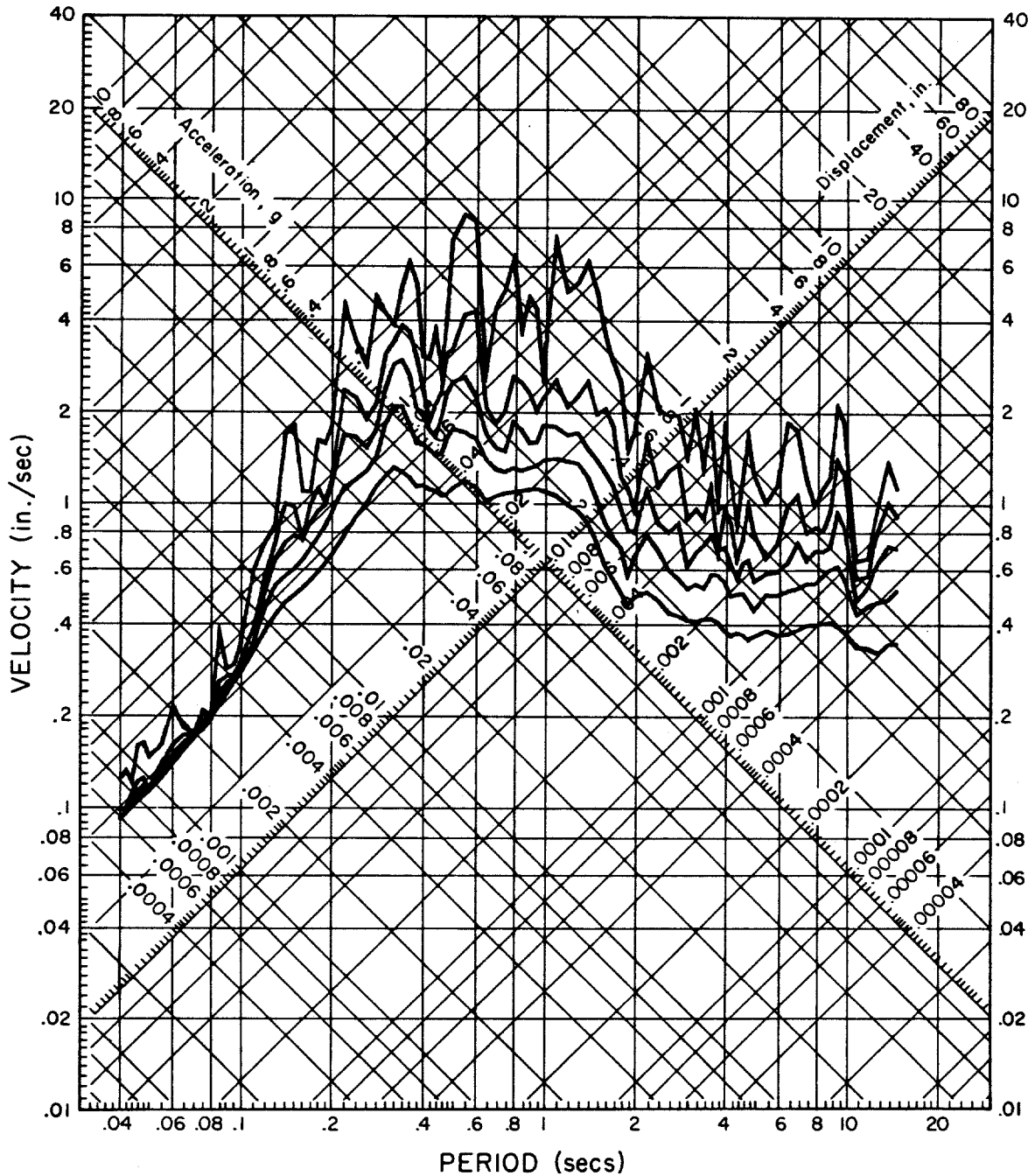
RESPONSE SPECTRUM

HUMBOLDT BAY EARTHQUAKE

FEB 6, 1937 - 2042 PST

111U298 37.001.0 CITY HALL ALLUVIUM, FERNDALE, CALIFORNIA COMP S45H

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HUMBOLDT BAY EARTHQUAKE FEB 6, 1937 - 2042 PST
 IIIU298 37.001.0 CITY HALL: ALLUVIUM, FERDALE, CALIFORNIA, COMP S45W

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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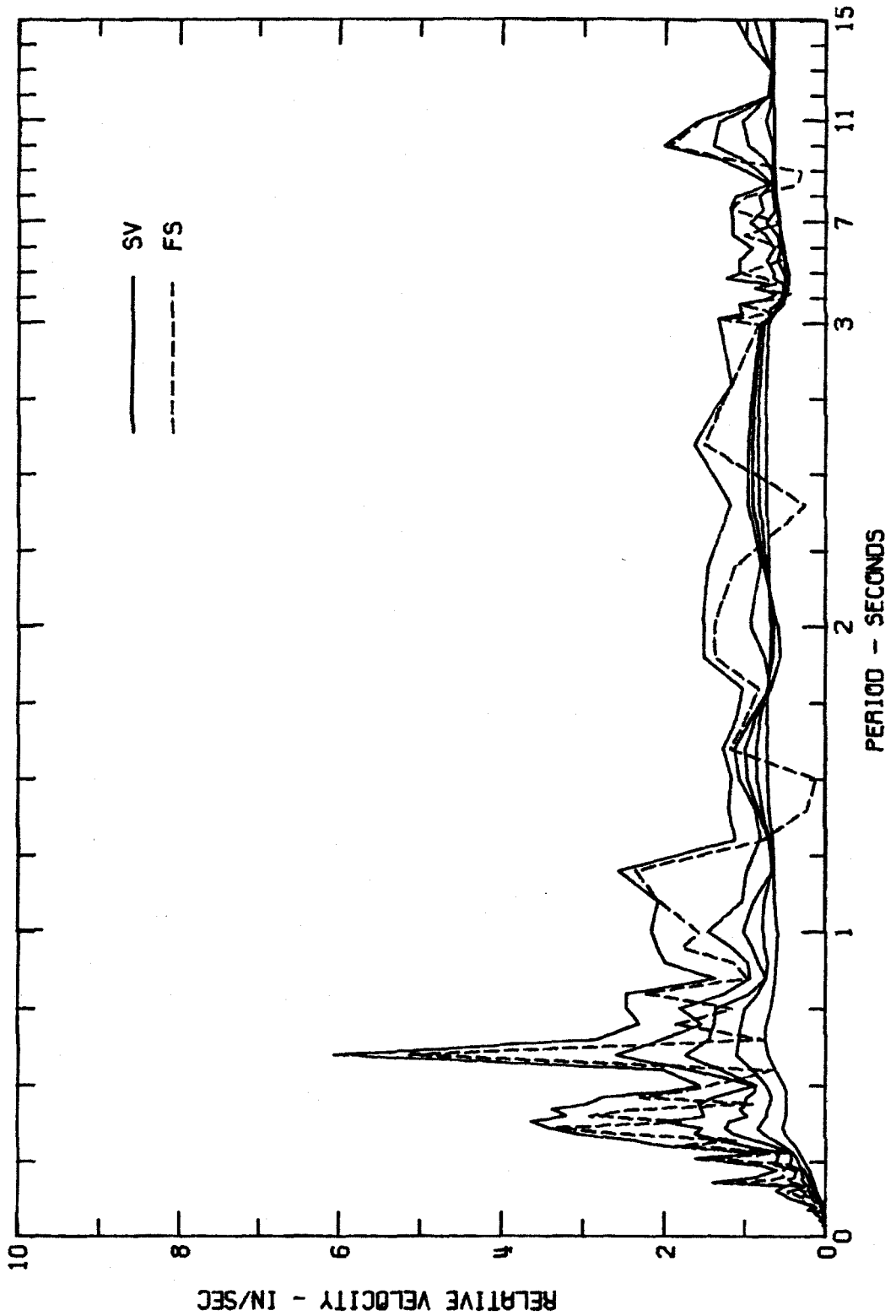
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0.95	145-2	666-3	438-2	754-4	440-2	305-3	205-2	346-4	202-2	242-3	174-2	275-4	160-2	202-3	155-2	239-4	133-2
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RELATIVE VELOCITY RESPONSE SPECTRUM
HUMBOLDT BAY EARTHQUAKE FEB 6, 1937 - 2042 PST
1111298 37.001.0 CITY HALL • ALLUVIUM, FERNDALE, CALIFORNIA COMP UP
DAMPING VALUES ARE 0. 2, 5, 10 AND 20 PERCENT OF CRITICAL



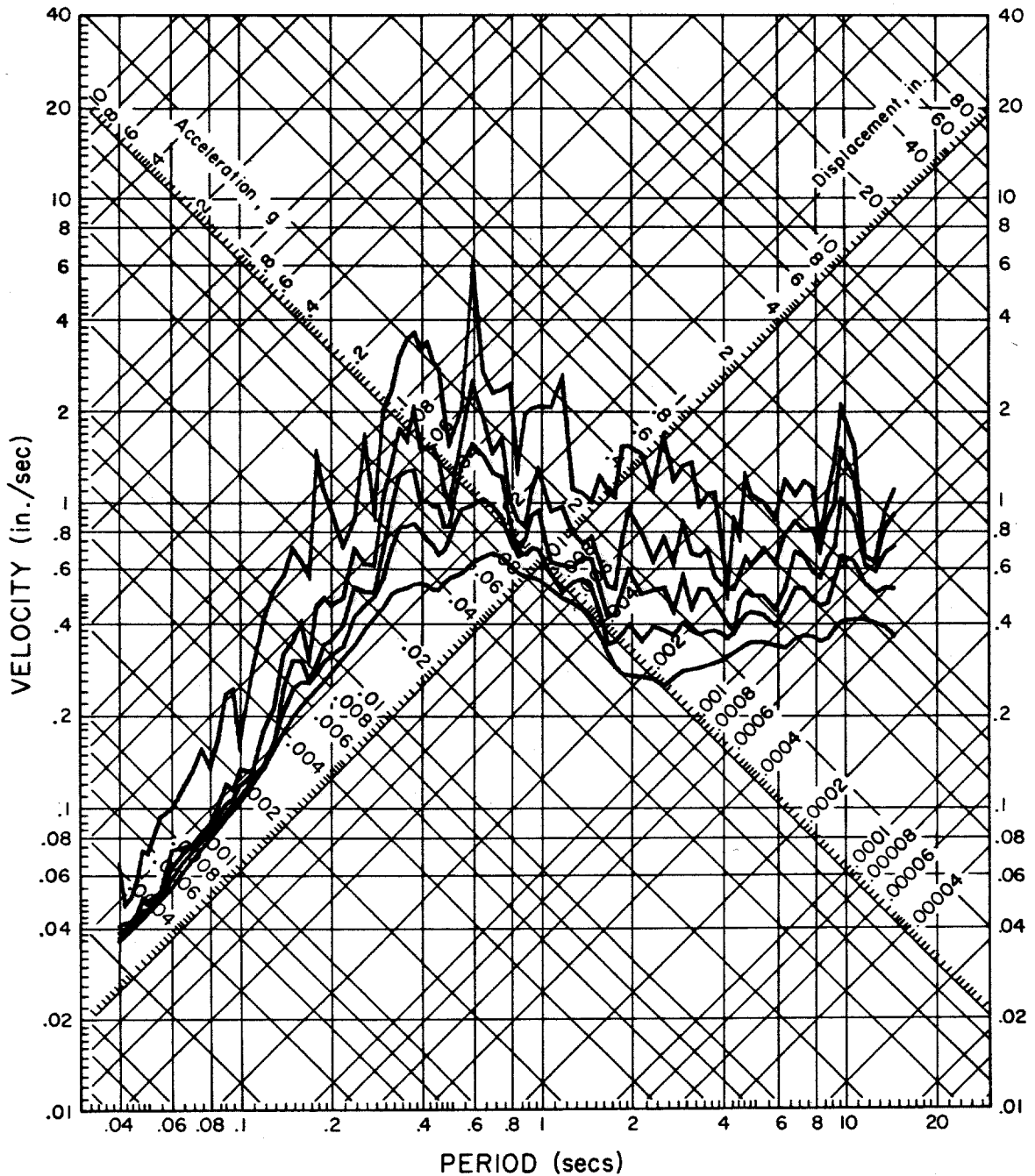
RESPONSE SPECTRUM

HUMBOLDT BAY EARTHQUAKE

FEB 6, 1937 - 2042 PST

111U298 37.001.0 CITY HALL: ALLUVIUM. FERNDALE, CALIFORNIA COMP UP

DAMPING VALUES ARE 0. 2. 5. 10 AND 20 PERCENT OF CRITICAL



111U29R 37.001.0 CITY HALL: ALLUVIUM, FERNDALE, CALIFORNIA COMP UP

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

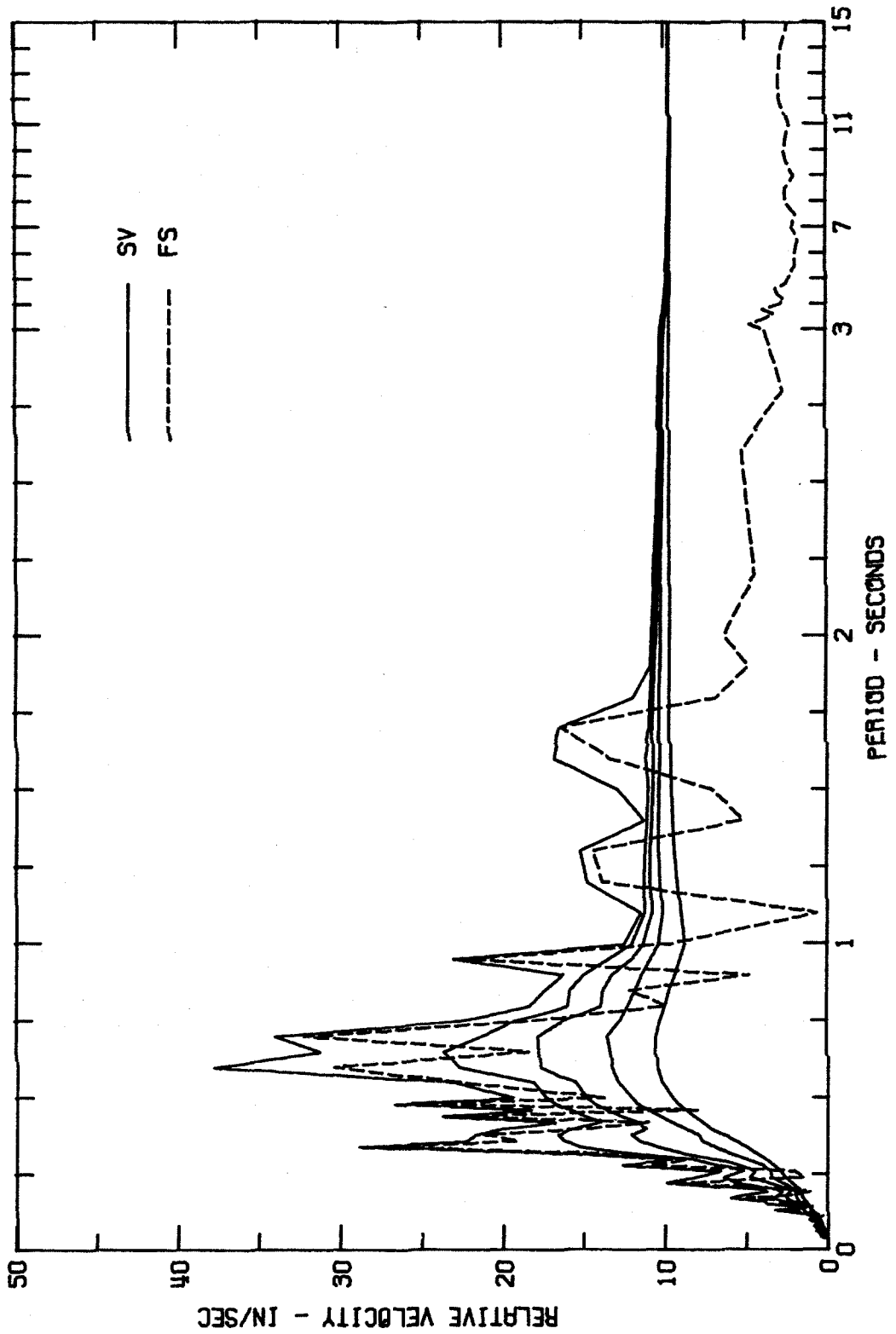
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THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT DAMPING = 2 PER CENT DAMPING = 5 PER CENT DAMPING = 10 PER CENT DAMPING = 20 PER CENT

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.75	114-2	285-3	247-2	519-4	239-2	198-3	181-2	360-4	166-2	146-3	136-2	267-4	122-2	107-3	100-2	198-4	900-3
0.80	223-2	317-3	247-2	506-4	249-2	130-3	125-2	209-4	102-2	110-3	951-3	176-4	866-3	963-4	846-3	156-4	757-3
0.85	977-3	179-3	136-2	253-4	132-2	119-3	949-3	168-4	884-3	948-4	745-3	135-4	701-3	907-4	741-3	131-4	670-3
0.90	114-2	285-3	200-2	360-4	199-2	120-3	971-3	151-4	840-3	109-3	848-3	138-4	761-3	982-4	723-3	126-4	685-3
0.95	179-2	314-3	210-2	356-4	207-2	168-3	118-2	190-4	110-2	138-3	921-3	158-4	918-3	108-3	772-3	126-4	718-3
1.00	157-2	335-3	216-2	343-4	210-2	207-3	146-2	212-4	130-2	151-3	102-2	156-4	954-3	112-3	787-3	119-4	704-3
1.10	207-2	367-3	207-2	310-4	209-2	165-3	103-2	139-4	945-3	112-3	891-3	953-5	641-3	102-3	762-3	909-5	585-3
1.20	236-2	500-3	258-2	355-4	262-2	187-3	987-3	132-4	979-3	119-3	666-3	853-5	626-3	974-4	679-3	732-5	510-3
1.30	781-3	231-3	113-2	139-4	111-2	166-3	820-3	100-4	803-3	127-3	725-3	780-5	616-3	113-3	712-3	728-5	550-3
1.40	234-3	242-3	120-2	126-4	108-2	165-3	875-3	862-5	740-3	147-3	847-3	715-5	655-3	125-3	866-3	594-5	527-3
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2.80	117-2	533-3	117-2	695-5	119-2	282-3	905-3	369-5	634-3	196-3	872-3	257-5	441-3	164-3	824-3	218-5	369-3
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6.60	117-2	154-2	100-2	194-5	107-2	126-2	852-3	159-5	883-3	958-3	684-3	121-5	668-3	675-3	668-3	983-6	471-3
6.80	126-2	208-2	136-2	236-5	138-2	151-2	107-2	172-5	100-2	109-2	789-3	124-5	723-3	852-3	674-3	989-6	563-3
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8.00	112-2	268-2	112-2	122-5	112-2	222-2	901-3	101-5	930-3	173-2	690-3	794-6	728-3	125-2	669-3	590-6	524-3
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12.00	112-2	268-2	112-2	122-5	112												

RELATIVE VELOCITY RESPONSE SPECTRUM
SANTA BARBARA EARTHQUAKE JUN 30, 1941 - 2351 PST
111U299 41.002.0 SANTA BARBARA COURT HOUSE, CALIFORNIA COMP SUSE
DAMPING VALUES ARE 0. 2. 5. 10 AND 20 PERCENT OF CRITICAL

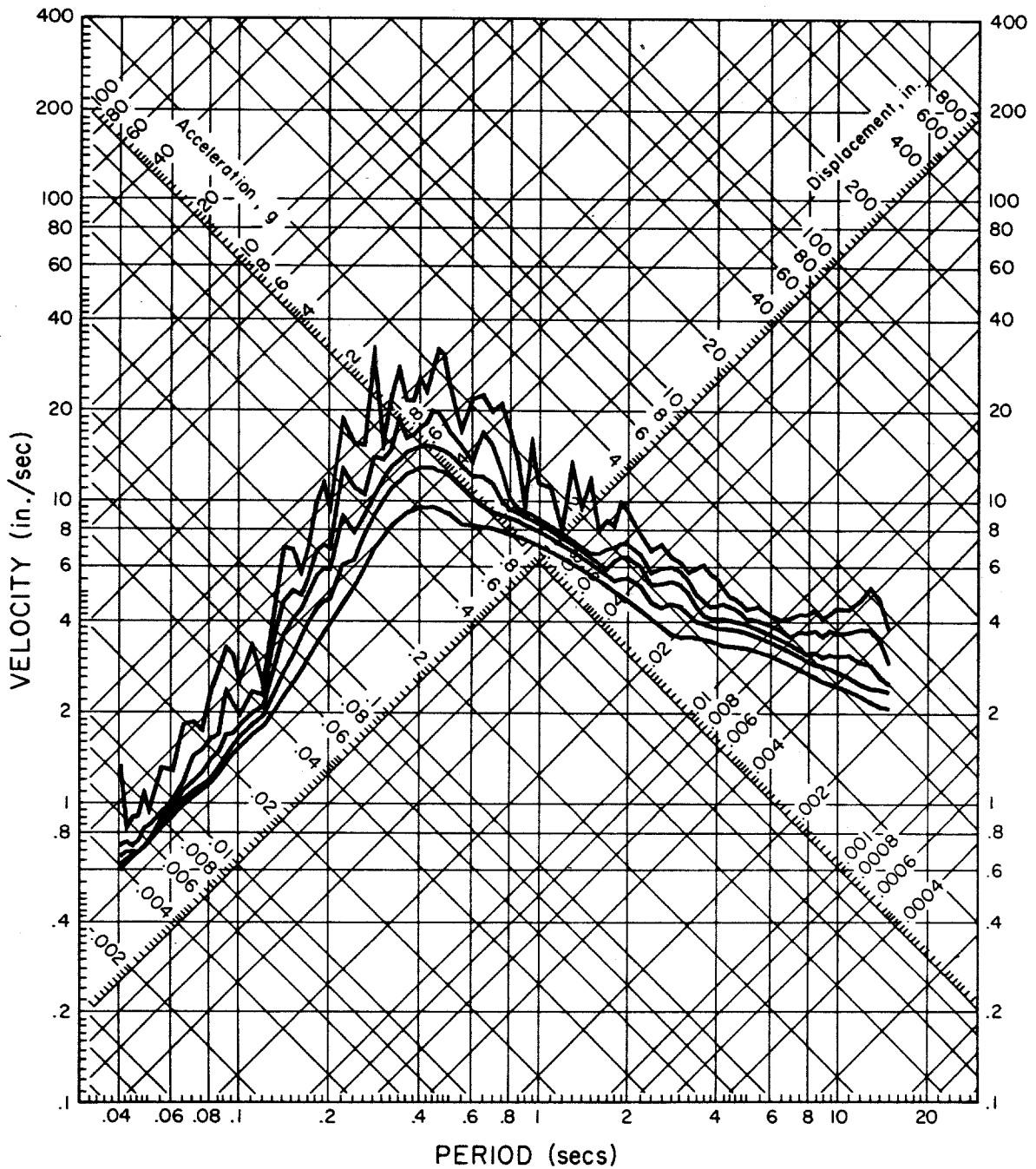


RESPONSE SPECTRUM

SANTA BARBARA EARTHQUAKE JUN 30, 1941 - 2351 PST

IIIU299 41.002.0 SANTA BARBARA COURT HOUSE, CALIFORNIA COMP M45E

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SANTA BARBARA EARTHQUAKE JUN 30, 1941 - 2351 PST
 IIIU299 41.002.0 SANTA BARBARA COURT HOUSE, CALIFORNIA COMP N45E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

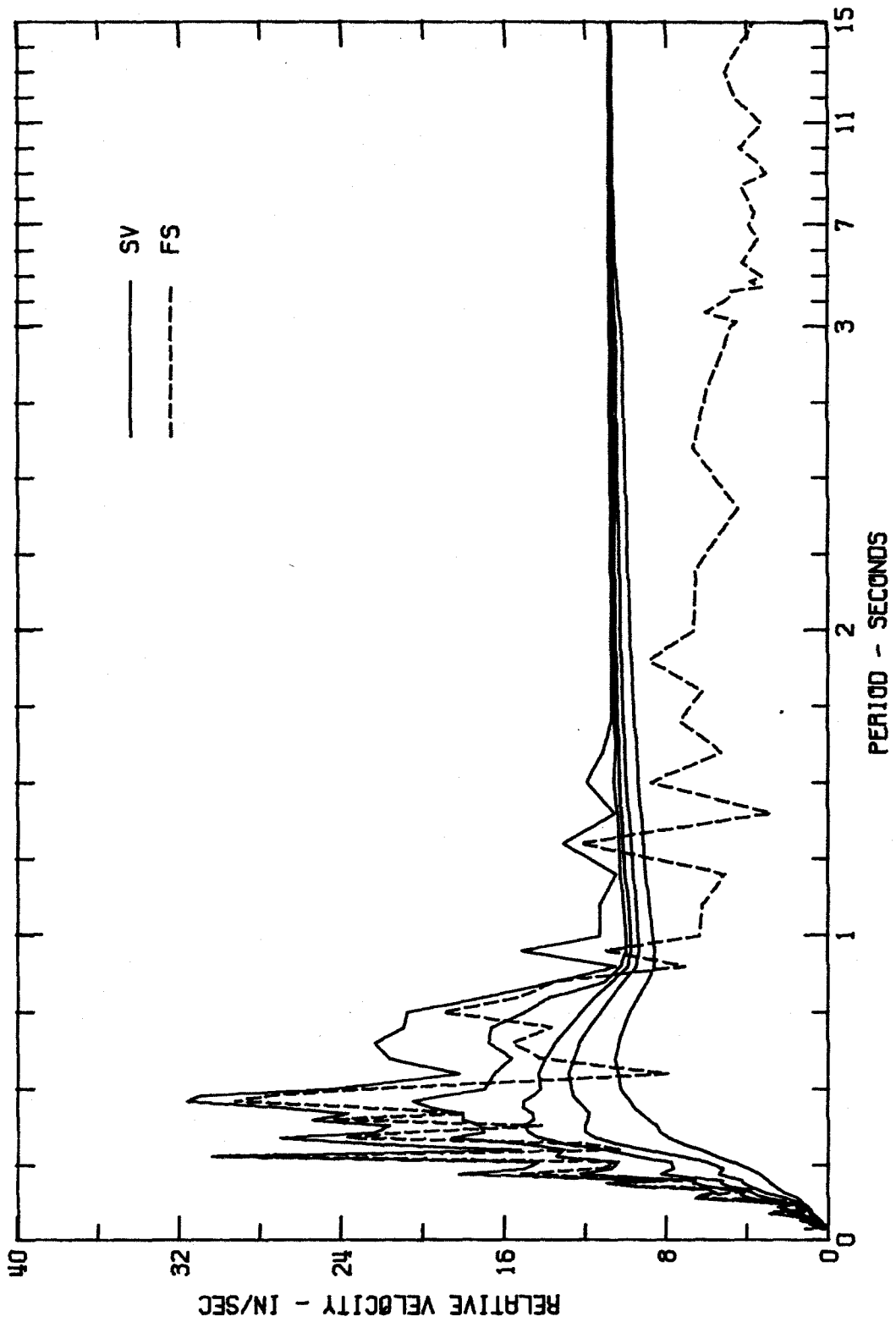
PER	DAMPING = 0 PER CENT				DAMPING = 2 PER CENT				DAMPING = 5 PER CENT				DAMPING = 10 PER CENT				DAMPING = 20 PER CENT			
	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA
0.040	111-2	834-5	114-2	533-3	131-2	454-5	396-3	290-3	713-3	418-5	304-3	266-3	657-3	392-5	243-3	251-3	616-3	377-5	195-3	242-3
0.042	416-3	544-5	437-3	315-3	814-3	487-5	333-3	282-3	729-3	452-5	284-3	262-3	677-3	428-5	253-3	249-3	641-3	416-5	211-3	241-3
0.044	212-3	620-5	405-3	327-3	886-3	497-5	254-3	262-3	709-3	475-5	271-3	251-3	679-3	462-5	255-3	244-3	660-3	454-5	223-3	241-3
0.046	328-3	654-5	450-3	316-3	893-3	541-5	364-3	261-3	738-3	493-5	293-3	238-3	674-3	496-5	271-3	240-3	678-3	496-5	234-3	240-3
0.048	599-3	814-5	761-3	361-3	106-2	621-5	377-3	276-3	813-3	539-5	318-3	240-3	706-3	536-5	287-3	238-3	702-3	539-5	250-3	240-3
0.050	125-3	737-5	503-3	301-3	927-3	662-5	354-3	270-3	832-3	591-5	320-3	241-3	743-3	583-5	294-3	238-3	733-3	586-5	259-3	240-3
0.055	845-3	113-4	964-3	384-3	129-2	804-5	578-3	271-3	918-3	765-5	417-3	257-3	874-3	720-5	322-3	244-3	823-3	713-5	298-3	243-3
0.060	681-3	121-4	746-3	344-3	127-2	975-5	513-3	278-3	102-2	917-5	447-3	260-3	960-3	885-5	368-3	251-3	927-3	854-5	340-3	243-3
0.065	138-2	187-4	145-3	452-3	180-2	121-4	745-3	292-3	116-2	112-4	556-3	273-3	108-2	105-4	456-3	256-3	101-2	100-4	410-3	243-3
0.070	111-2	204-4	128-2	427-3	183-2	157-4	924-3	329-3	141-2	130-4	721-3	271-3	117-2	120-4	600-3	252-3	108-2	115-4	493-3	241-3
0.075	829-3	205-4	116-2	374-3	172-2	178-4	100-2	325-3	149-2	149-4	787-3	273-3	125-2	136-4	674-3	248-3	114-2	130-4	564-3	237-3
0.080	156-2	295-4	176-2	472-3	232-2	205-4	132-2	328-3	161-2	175-4	104-2	279-3	138-2	151-4	787-3	241-3	118-2	146-4	650-3	235-3
0.085	182-2	370-4	226-3	524-3	306-2	225-4	148-2	320-3	166-2	197-4	124-2	278-3	145-2	175-4	919-3	250-3	130-2	167-4	732-3	238-3
0.090	271-2	464-4	297-2	585-3	324-2	333-4	202-2	422-3	232-2	238-4	141-2	304-3	166-2	204-4	997-3	257-3	142-2	192-4	803-3	243-3
0.095	226-2	462-4	277-2	524-3	306-2	318-4	164-2	362-3	210-2	254-4	130-2	287-3	167-2	263-4	102-2	265-3	154-2	217-4	859-3	247-3
0.100	138-2	400-4	183-2	413-3	251-2	308-4	124-2	315-3	194-2	285-4	118-2	292-3	179-2	261-4	103-2	268-3	164-2	241-4	915-3	249-3
0.110	110-2	574-4	257-2	485-3	328-2	405-4	166-2	342-3	231-2	344-4	131-2	290-3	196-2	315-4	113-2	266-3	180-2	292-4	103-2	248-3
0.120	169-2	464-4	177-2	330-3	243-2	430-4	149-2	305-3	225-2	396-4	151-2	283-3	207-2	368-4	135-2	265-3	193-2	341-4	119-2	243-3
0.130	137-2	868-4	376-2	525-3	419-2	712-2	300-2	431-3	343-2	566-4	288-2	342-3	273-2	472-4	178-2	281-3	228-2	412-4	136-2	256-3
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0.150	624-2	162-3	622-2	740-3	682-2	119-3	435-2	545-3	501-2	964-4	354-2	440-3	403-2	727-4	270-2	330-3	304-2	589-4	184-2	277-3
0.160	448-2	146-3	554-2	584-3	574-2	123-3	412-2	493-3	483-2	111-3	373-2	446-3	436-2	899-4	311-2	366-3	353-2	692-4	218-2	286-3
0.170	368-2	193-3	591-2	683-3	714-2	151-3	498-2	536-3	561-2	161-3	493-2	506-3	562-2	124-3	389-2	396-3	436-2	955-4	267-2	307-3
0.180	954-2	281-3	969-2	887-3	981-2	193-3	615-2	609-3	676-2	178-3	529-2	505-3	591-2	139-3	420-2	399-3	459-2	109-3	287-2	319-3
0.190	105-1	344-3	109-1	975-3	113-1	214-3	670-2	607-3	709-2	178-3	529-2	505-3	591-2	139-3	420-2	399-3	459-2	109-3	287-2	319-3
0.200	721-2	299-3	795-2	765-3	940-2	219-3	658-2	565-3	690-2	187-3	521-2	476-3	588-2	149-3	426-2	377-3	470-2	124-3	297-2	328-3
0.220	153-1	652-3	183-1	137-2	186-1	444-3	123-1	942-3	127-1	310-3	830-2	664-3	886-2	213-3	540-2	468-3	610-2	159-3	339-2	345-3
0.240	112-1	590-3	149-1	104-2	154-1	421-3	106-1	743-3	110-1	296-3	762-2	519-3	777-2	241-3	517-2	438-3	632-2	197-3	395-2	364-3
0.260	103-1	633-3	142-1	958-3	153-1	433-3	103-1	654-3	104-1	370-3	776-2	555-3	894-2	320-3	600-2	484-3	774-2	246-3	470-2	393-3
0.280	302-1	136-2	304-1	177-2	306-1	620-3	134-1	809-3	139-1	460-3	944-2	610-3	103-1	397-3	727-2	527-3	892-2	306-3	555-2	418-3
0.300	101-1	739-3	152-1	840-3	154-1	653-3	130-1	740-3	136-1	564-3	109-1	645-3	118-1	477-3	892-2	554-3	100-1	360-3	630-2	432-3
0.320	119-1	113-2	222-1	113-2	223-1	131-2	186-1	895-3	148-1	737-3	143-1	662-3	136-1	625-3	115-1	570-3	115-1	467-3	789-2	440-3
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0.360	206-1	123-2	223-1	973-3	215-1	920-3	169-1	727-3	160-1	827-3	148-1	655-3	144-1	700-3	120-1	556-3	122-1	519-3	832-2	439-3
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0.420	180-1	154-2	236-1	895-3	231-1	120-2	180-1	698-3	180-1	101-2	145-1	586-3	151-1	854-3	117-1	509-3	127-1	629-3	922-2	398-3
0.440	229-1	191-2	267-1	101-2	273-1	139-2	196-1	733-3	198-1	105-2	150-1	562-3	150-1	897-3	120-1	480-3	128-1	664-3	957-2	378-3
0.460	292-1	233-2	316-1	112-2	318-1	143-2	204-1	692-3	195-1	108-2	150-1	528-3	148-1	916-3	123-1	458-3	125-1	684-3	978-2	363-3
0.480	273-1	233-2	305-1	103-2	305-1	140-2	189-1	622-3	183-1	111-2	145-1	496-3	145-1	947-3	126-1	430-3	124-1	698-3	100-1	342-3
0.500	226-1	196-2	245-1	805-3	247-1	134-2	169-1	552-3	169-1	113-2	142-1	465-3	142-1	956-3	127-1	400-3	120-1	714-3	102-1	320-3
0.550	791-2	149-2	181-1	504-3	170-1	132-2	164-1	449-3	151-1	114-2	143-1	386-3	130-1	964-3	128-1	334-3	110-1	724-3	103-1	273-3
0.600	142-1	207-2	216-1	589-3	217-1	178-2	156-1	364-3	134-1	114-2	139-1	328-3	120-1	969-3	125-1	279-3	101-1	785-3	105-1	246-3
0.650	156-1	231-2	223-1	561-3	224-1	124-2	167-1	423-3	168-1	123-2	134-1	301-3	119-1	985-3	122-1	242-3	952-2	838-3	103-1	227-3
0.700	136-1	220-2	208-1	459-3	197-1	169-2	166-1	353-3	151-1	126-2	128-1	265-3	113-1	101-2	117-1	219-3	911-2	893-3	100-1	210-3

IIU299 41.002.0 SANTA BARBARA COURT HOUSE, CALIFORNIA COMP N45E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.75	190-1	250-2	207-1	455-3	209-1	149-2	149-1	273-3	125-1	118-2	121-1	218-3	995-2	106-2	112-1	199-3	888-2	938-3	978-2	193-3	786-2
0.80	151-1	218-2	170-1	349-3	171-1	129-2	137-1	207-3	101-1	118-2	115-1	190-3	930-2	110-2	106-1	183-3	871-2	976-3	939-2	179-3	766-2
0.85	134-1	184-2	135-1	261-3	136-1	126-2	110-1	180-3	938-2	122-2	106-1	174-3	903-2	114-2	100-1	169-3	849-2	102-2	895-2	166-3	754-2
0.90	707-2	134-2	104-1	170-3	941-2	131-2	102-1	165-3	915-2	125-2	987-2	161-3	879-2	118-2	947-2	156-3	826-2	105-2	859-2	155-3	738-2
0.95	110-1	233-2	151-1	264-3	154-1	134-2	992-2	152-3	890-2	129-2	968-2	148-3	857-2	121-2	928-2	144-3	805-2	109-2	853-2	145-3	721-2
1.00	634-2	181-2	112-1	185-3	114-1	137-2	998-2	141-3	864-2	132-2	975-2	137-3	834-2	125-2	937-2	134-3	786-2	111-2	866-2	136-3	703-2
1.10	621-2	193-2	112-1	163-3	110-1	143-2	101-1	121-3	816-2	137-2	986-2	118-3	787-2	130-2	951-2	115-3	746-2	117-2	887-2	120-3	673-2
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1.40	286-2	210-2	105-1	109-3	945-2	155-2	104-1	813-4	696-2	150-2	102-1	799-4	675-2	143-2	987-2	801-4	644-2	131-2	926-2	871-4	588-2
1.50	876-2	279-2	119-1	127-3	117-1	158-2	105-1	721-4	663-2	153-2	102-1	710-4	644-2	146-2	996-2	718-4	614-2	134-2	936-2	794-4	564-2
1.60	525-2	201-2	111-1	803-4	789-2	168-2	105-1	675-4	663-2	156-2	103-1	637-4	615-2	149-2	100-1	647-4	587-2	137-2	947-2	727-4	541-2
1.70	734-2	231-2	106-1	818-4	855-2	185-2	105-1	658-4	686-2	159-2	103-1	574-4	588-2	152-2	101-1	587-4	563-2	140-2	957-2	670-4	519-2
1.80	620-2	235-2	106-1	743-4	822-2	199-2	105-1	631-4	697-2	179-2	104-1	570-4	626-2	154-2	101-1	535-4	540-2	142-2	965-2	620-4	498-2
1.90	885-2	298-2	107-1	845-4	986-2	216-2	106-1	615-4	716-2	195-2	104-1	559-4	645-2	165-2	102-1	490-4	548-2	145-2	973-2	576-4	481-2
2.00	660-2	291-2	107-1	745-4	916-2	227-2	106-1	582-4	713-2	205-2	104-1	533-4	646-2	175-2	102-1	470-4	551-2	147-2	979-2	538-4	464-2
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2.40	447-2	259-2	107-1	461-4	680-2	219-2	106-1	390-4	575-2	200-2	105-1	364-4	524-2	174-2	103-1	339-4	457-2	154-2	999-2	422-4	404-2
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3.20	447-2	293-2	107-1	293-4	576-2	275-2	107-1	275-4	540-2	249-2	106-1	253-4	490-2	213-2	105-1	226-4	419-2	179-2	102-1	290-4	351-2
3.40	526-2	321-2	107-1	284-4	594-2	283-2	107-1	233-4	487-2	240-2	106-1	217-4	444-2	214-2	105-1	206-4	395-2	189-2	102-1	268-4	349-2
3.60	607-2	349-2	107-1	275-4	609-2	265-2	107-1	209-4	462-2	237-2	106-1	193-4	414-2	223-2	105-1	193-4	389-2	198-2	102-1	250-4	346-2
3.80	559-2	344-2	107-1	243-4	569-2	268-2	107-1	190-4	444-2	245-2	106-1	179-4	406-2	231-2	105-1	181-4	382-2	206-2	103-1	234-4	341-2
4.00	512-2	350-2	108-1	223-4	550-2	283-2	107-1	182-4	446-2	257-2	106-1	167-4	405-2	239-2	105-1	170-4	376-2	214-2	103-1	219-4	336-2
4.20	479-2	340-2	108-1	197-4	509-2	302-2	107-1	176-4	452-2	269-2	106-1	159-4	403-2	251-2	105-1	159-4	375-2	220-2	103-1	207-4	330-2
4.40	475-2	335-2	108-1	177-4	479-2	311-2	107-1	165-4	444-2	280-2	107-1	151-4	400-2	262-2	105-1	150-4	374-2	229-2	103-1	196-4	328-2
4.60	325-2	345-2	108-1	166-4	471-2	319-2	107-1	154-4	435-2	290-2	107-1	143-4	396-2	272-2	106-1	141-4	371-2	239-2	104-1	186-4	327-2
4.80	387-2	349-2	108-1	154-4	456-2	324-2	107-1	144-4	424-2	299-2	107-1	136-4	392-2	281-2	106-1	133-4	367-2	248-2	104-1	176-4	325-2
5.00	325-2	346-2	108-1	141-4	434-2	322-2	107-1	132-4	404-2	308-2	107-1	129-4	387-2	289-2	106-1	126-4	363-2	257-2	104-1	168-4	323-2
5.50	421-2	387-2	108-1	131-4	442-2	348-2	107-1	118-4	398-2	326-2	107-1	113-4	373-2	308-2	106-1	113-4	352-2	275-2	104-1	150-4	315-2
6.00	381-2	398-2	108-1	113-4	417-2	367-2	107-1	104-4	385-2	342-2	107-1	100-4	358-2	324-2	106-1	101-4	339-2	291-2	105-1	136-4	305-2
6.50	342-2	416-2	108-1	100-4	402-2	384-2	107-1	931-5	371-2	357-2	107-1	888-5	345-2	337-2	106-1	907-5	326-2	305-2	105-1	124-4	295-2
7.00	391-2	453-2	108-1	945-5	406-2	394-2	107-1	824-5	353-2	371-2	107-1	792-5	333-2	351-2	106-1	818-5	315-2	317-2	105-1	114-4	285-2
7.50	361-2	500-2	108-1	909-5	419-2	437-2	107-1	797-5	366-2	382-2	107-1	725-5	320-2	363-2	106-1	741-5	304-2	329-2	105-1	105-4	276-2
8.00	397-2	531-2	108-1	849-5	417-2	463-2	107-1	741-5	364-2	395-2	107-1	679-5	310-2	374-2	107-1	702-5	294-2	340-2	105-1	981-5	267-2
8.50	431-2	583-2	108-1	926-5	431-2	500-2	107-1	709-5	369-2	422-2	107-1	634-5	312-2	387-2	107-1	663-5	286-2	350-2	106-1	917-5	259-2
9.00	303-2	580-2	108-1	732-5	405-2	507-2	107-1	641-5	354-2	433-2	107-1	592-5	302-2	404-2	107-1	625-5	282-2	359-2	106-1	861-5	251-2
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14.00	442-2	104-1	108-1	543-5	467-2	765-2	108-1	399-5	343-2	577-2	107-1	315-5	259-2	525-2	107-1	362-5	235-2	462-2	106-1	534-5	207-2
15.00	359-2	895-2	108-1	407-5	375-2	689-2	108-1	313-5	288-2	591-2	107-1	283-5	247-2	554-2	107-1	329-5	232-2	490-2	107-1	496-5	205-2

RELATIVE VELOCITY RESPONSE SPECTRUM
SANTA BARBARA EARTHQUAKE JUN 30, 1941 - 2351 PST
111U299 41.002.0 SANTA BARBARA COURT HOUSE, CALIFORNIA COMP N45E
DAMPING VALUES ARE 0. 2. 5. 10 AND 20 PERCENT OF CRITICAL

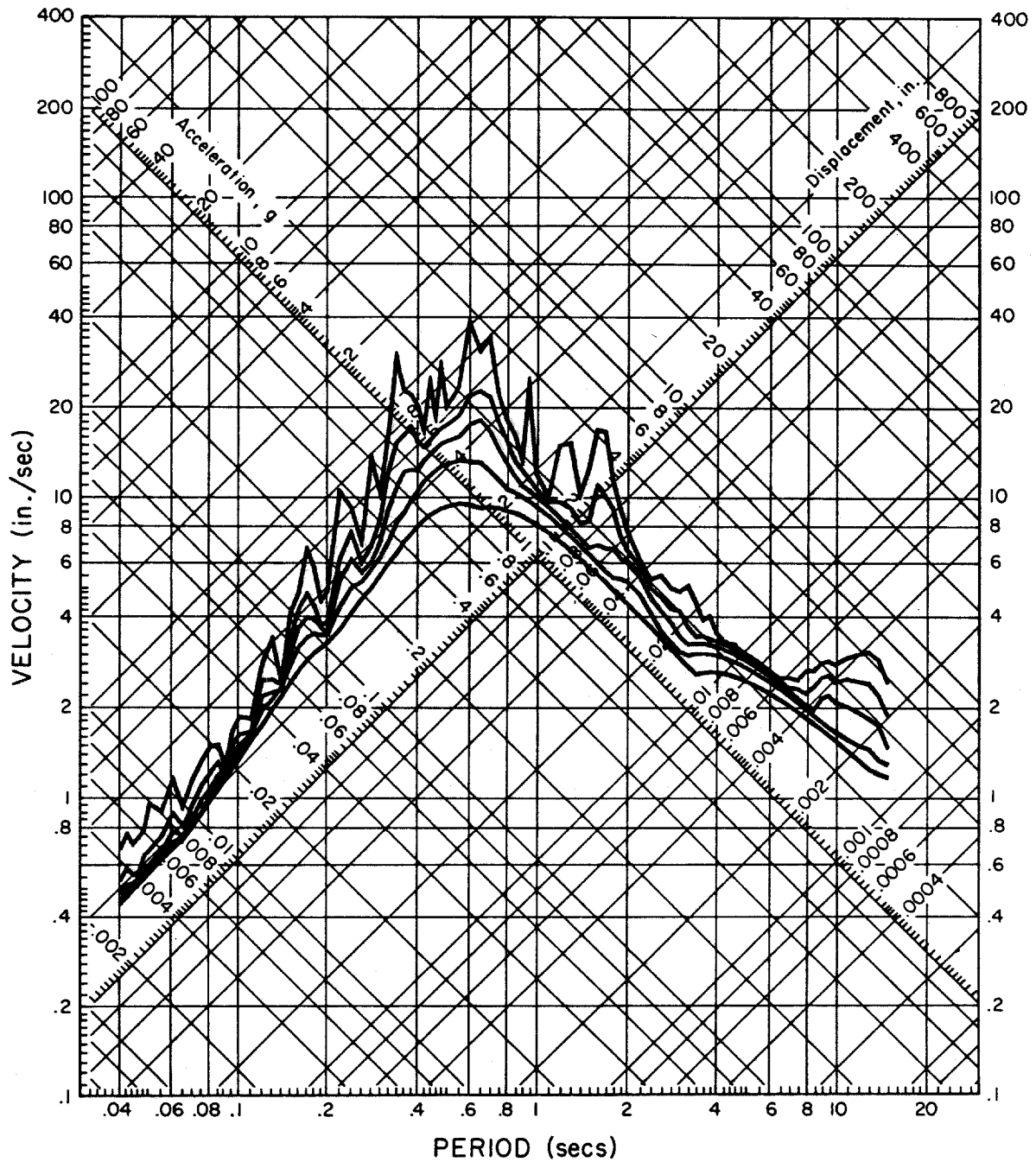


RESPONSE SPECTRUM

SANTA BARBARA EARTHQUAKE JUN 30, 1941 - 2351 PST

111U299 41.002.0 SANTA BARBARA COURT HOUSE, CALIFORNIA COMP S45E

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

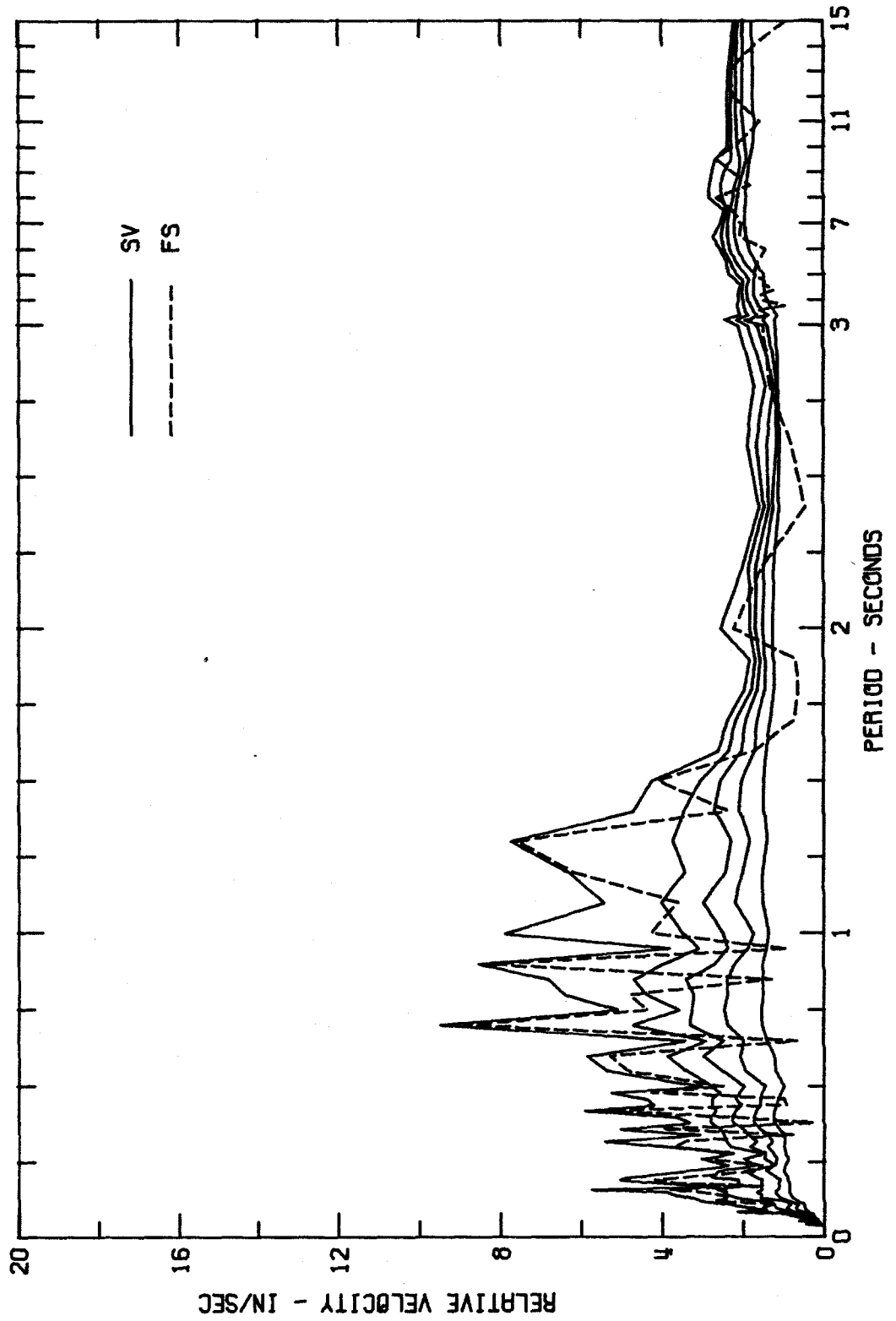


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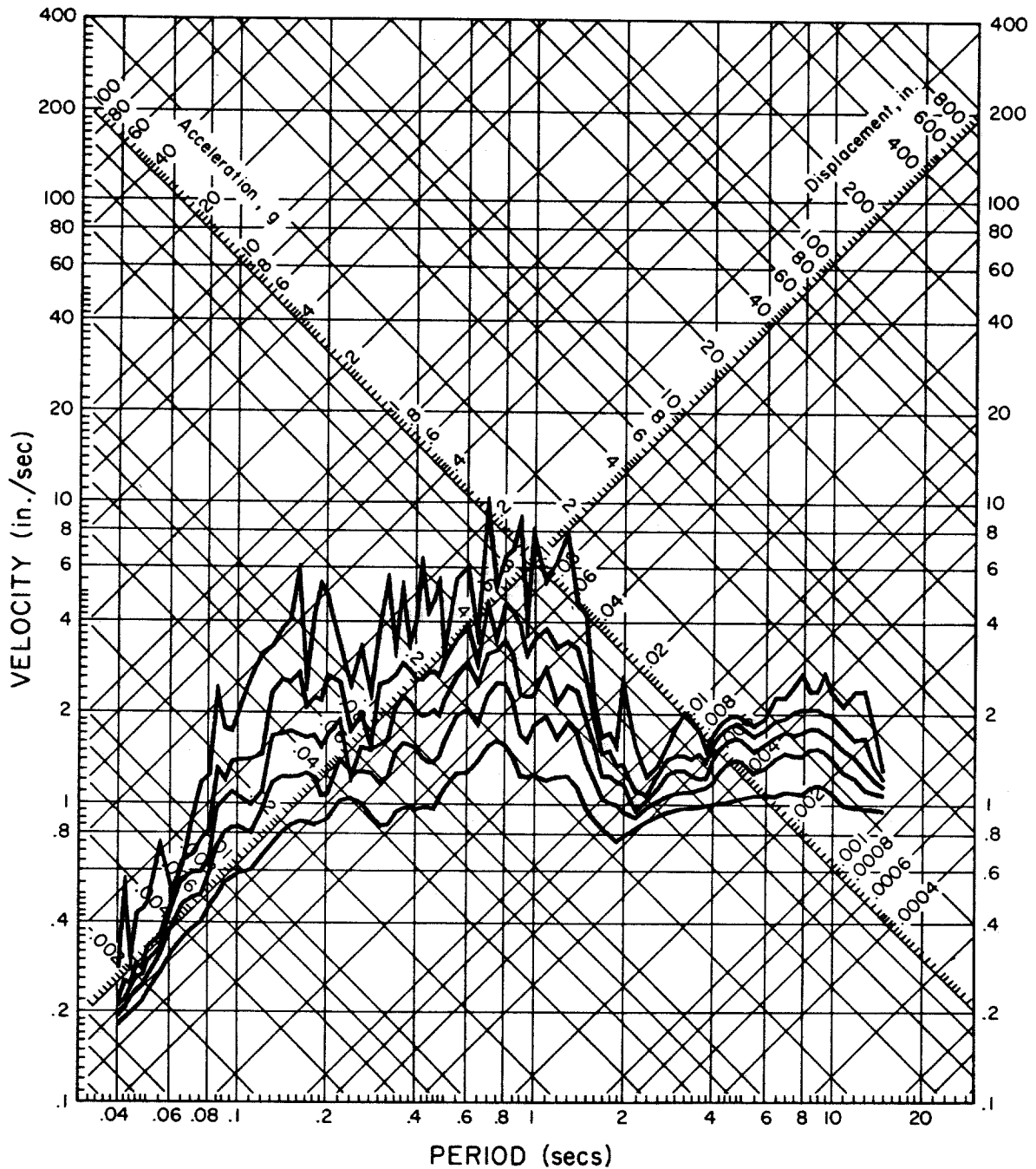
THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
DAMPING = 0 PER CENT																	
DAMPING = 2 PER CENT																	
DAMPING = 5 PER CENT																	
DAMPING = 10 PER CENT																	
DAMPING = 20 PER CENT																	
0.75	181-1	261-2	224-1	474-3	218-1	210-2	191-1	383-3	176-1	170-2	161-1	312-3	142-1	134-2	127-1	250-3	112-1
0.80	984-2	228-2	183-1	365-3	179-1	193-2	159-1	309-3	151-1	162-2	138-1	261-3	127-1	133-2	122-1	220-3	105-1
0.85	122-1	216-2	173-1	305-3	159-1	176-2	158-1	249-3	130-1	156-2	137-1	223-3	116-1	138-2	118-1	203-3	102-1
0.90	478-2	187-2	162-1	237-3	131-1	173-2	149-1	218-3	121-1	154-2	132-1	196-3	107-1	141-2	114-1	186-3	989-2
0.95	223-1	350-2	231-1	396-3	231-1	170-2	134-1	193-3	112-1	156-2	120-1	178-3	103-1	144-2	108-1	170-3	958-2
1.00	968-2	188-2	124-1	193-3	118-1	167-2	120-1	171-3	105-1	158-2	113-1	163-3	994-2	146-2	103-1	156-3	923-2
1.10	652-3	172-2	114-1	146-3	987-2	167-2	112-1	142-3	956-2	160-2	107-1	137-3	917-2	150-2	101-1	132-3	856-2
1.20	138-1	282-2	147-1	203-3	147-1	181-2	112-1	129-3	952-2	161-2	108-1	116-3	846-2	151-2	102-1	113-3	792-2
1.30	144-1	311-2	152-1	188-3	150-1	188-2	111-1	114-3	912-2	161-2	108-1	988-4	780-2	152-2	103-1	970-4	736-2
1.40	520-2	224-2	112-1	117-3	100-1	180-2	110-1	944-4	810-2	161-2	107-1	849-4	722-2	152-2	103-1	840-4	683-2
1.50	718-2	295-2	129-1	134-3	123-1	197-2	110-1	896-4	825-2	160-2	107-1	737-4	670-2	152-2	103-1	734-4	636-2
1.60	134-1	424-2	168-1	169-3	166-1	175-2	112-1	110-3	108-1	174-2	107-1	699-4	683-2	151-2	103-1	645-4	595-2
1.70	163-1	443-2	164-1	156-3	163-1	267-2	108-1	949-4	990-2	180-2	106-1	645-4	668-2	150-2	102-1	571-4	557-2
1.80	675-2	323-2	118-1	102-3	112-1	258-2	108-1	817-4	902-2	191-2	106-1	609-4	668-2	152-2	102-1	509-4	531-2
1.90	479-2	275-2	108-1	781-4	911-2	222-2	107-1	630-4	734-2	187-2	105-1	534-4	618-2	159-2	102-1	462-4	528-2
2.00	637-2	246-2	107-1	629-4	772-2	210-2	106-1	537-4	659-2	190-2	104-1	493-4	599-2	164-2	102-1	433-4	515-2
2.20	440-2	216-2	106-1	457-4	617-2	204-2	105-1	432-4	582-2	187-2	103-1	401-4	535-2	163-2	101-1	364-4	466-2
2.40	489-2	200-2	104-1	356-4	525-2	187-2	104-1	332-4	489-2	173-2	103-1	313-4	453-2	153-2	101-1	293-4	401-2
2.60	529-2	224-2	103-1	339-4	542-2	188-2	103-1	285-4	456-2	169-2	102-1	258-4	409-2	145-2	100-1	248-4	351-2
2.80	267-2	218-2	102-1	285-4	490-2	186-2	102-1	243-4	418-2	167-2	101-1	221-4	376-2	144-2	100-1	217-4	324-2
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RELATIVE VELOCITY RESPONSE SPECTRUM
SANTA BARBARA EARTHQUAKE JUN 30, 1941 - 2351 PST
1111U299 41.002.0 SANTA BARBARA COURT HOUSE, CALIFORNIA COMP UP
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SANTA BARBARA EARTHQUAKE JUN 30, 1941 - 2351 PST
 I11U299 41.002.0 SANTA BARBARA COURT HOUSE, CALIFORNIA COMP UP

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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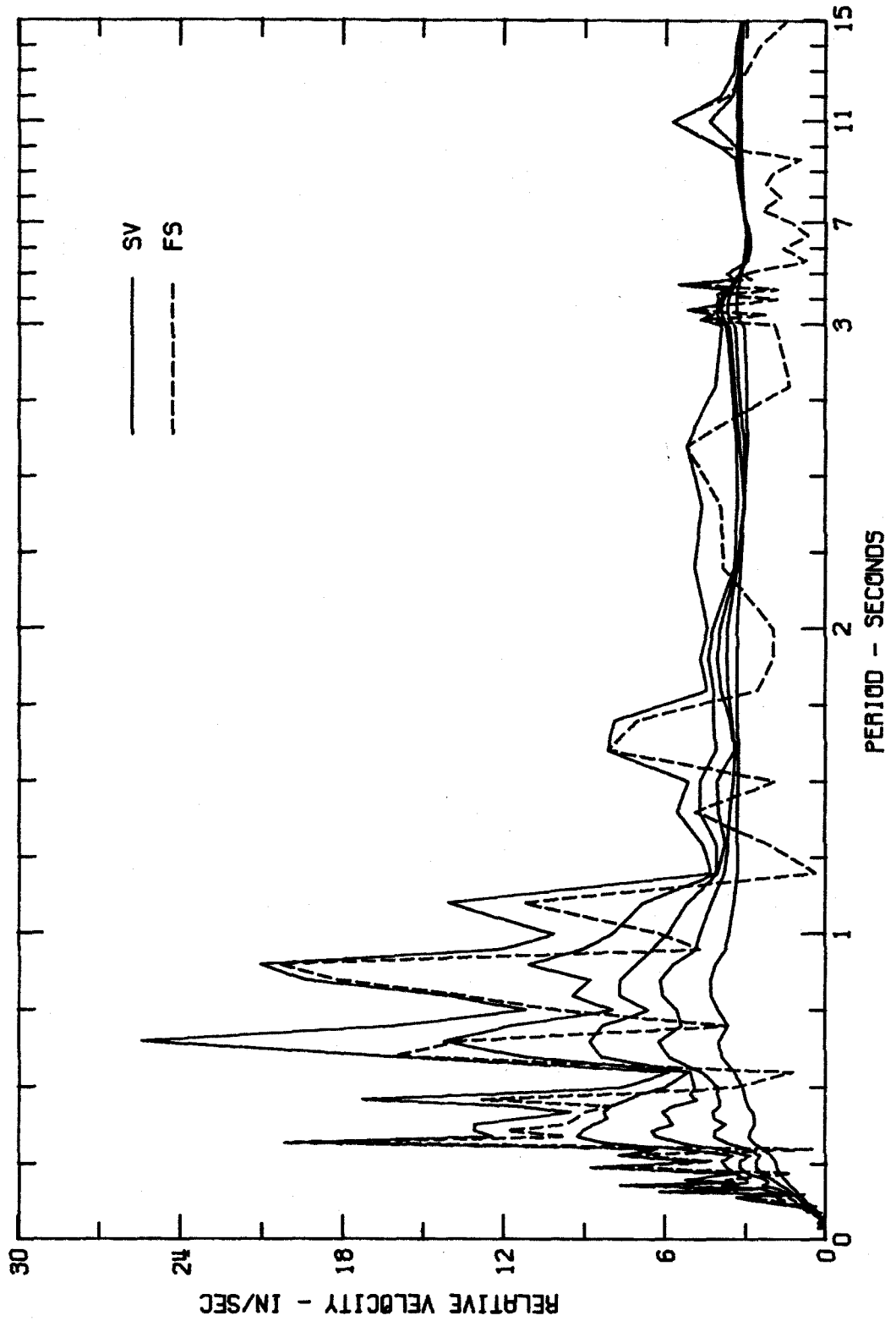
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0.042	422-3	340-5	471-3	197-3	509-3	165-5	154-3	955-4	247-3	143-5	119-3	829-4	215-3	134-5	111-3	775-4	200-3
0.044	188-3	205-5	217-3	108-3	294-3	169-5	170-3	899-4	241-3	165-5	134-3	868-4	236-3	152-5	124-3	804-4	217-3
0.046	223-3	301-5	320-3	148-3	420-3	206-5	173-3	100-3	282-3	187-5	149-3	910-4	255-3	169-5	134-3	828-4	230-3
0.048	282-3	330-5	366-3	146-3	433-3	207-5	193-3	100-3	282-3	199-5	152-3	895-4	260-3	183-5	143-3	839-4	240-3
0.050	294-3	365-5	359-3	149-3	458-3	257-5	209-3	104-3	323-3	230-5	171-3	939-4	289-3	205-5	150-3	840-4	257-3
0.055	609-3	625-5	673-3	211-3	714-3	310-5	253-3	105-3	354-3	282-5	213-3	952-4	322-3	268-5	190-3	907-4	306-3
0.060	385-3	478-5	421-3	135-3	500-3	439-5	358-3	125-3	460-3	418-5	323-3	119-3	438-3	362-5	254-3	106-3	379-3
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0.100	151-2	315-4	200-2	322-3	198-2	217-4	122-2	220-3	136-2	164-4	925-3	172-3	103-2	130-4	702-3	136-3	820-3
0.110	117-2	450-4	242-2	380-3	257-2	240-4	126-2	201-3	137-2	169-4	857-3	142-3	970-3	137-4	774-3	115-3	786-3
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0.180	364-2	116-3	401-2	369-3	408-2	631-4	210-2	199-3	220-2	473-4	154-2	149-3	165-2	342-4	110-2	122-3	119-2
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0.440	904-3	295-3	416-2	156-3	422-2	187-3	276-2	993-4	267-2	135-3	202-2	725-4	193-2	948-4	156-2	514-4	135-2
0.460	983-3	340-3	443-2	164-3	464-2	196-3	277-2	950-4	268-2	146-3	218-2	711-4	200-2	986-4	156-2	482-4	134-2
0.480	427-2	408-3	527-2	181-3	534-2	200-3	256-2	892-4	262-2	146-3	209-2	654-4	192-2	107-3	153-2	486-4	141-2
0.500	247-2	245-3	301-2	100-3	308-2	232-3	308-2	956-4	292-2	173-3	197-2	707-4	217-2	125-3	145-2	521-4	158-2
0.520	485-2	479-3	537-2	162-3	548-2	300-3	342-2	101-3	343-2	226-3	253-2	769-4	259-2	167-3	194-2	575-4	191-2
0.540	531-2	573-3	586-2	162-3	600-2	369-3	380-2	104-3	386-2	275-3	300-2	783-4	288-2	193-3	209-2	559-4	202-2
0.560	644-3	360-3	341-2	887-4	354-2	294-3	290-2	712-4	284-2	252-3	247-2	613-4	244-2	186-3	197-2	456-4	179-2
0.700	887-2	106-2	951-2	221-3	953-2	501-3	473-2	105-3	433-2	344-3	333-2	722-4	309-2	251-3	238-2	535-4	226-2

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.75	435-2	612-3	507-2	111-3	513-2	408-3	357-2	745-4	342-2	378-3	326-2	690-4	316-2	294-3	246-2	548-4	246-2
0.80	481-2	827-3	641-2	132-3	649-2	570-3	439-2	913-4	447-2	435-3	323-2	702-4	342-2	311-3	239-2	512-4	244-2
0.85	129-2	928-3	683-2	131-3	886-2	574-3	470-2	813-4	424-2	433-3	343-2	589-4	305-2	290-3	241-2	424-4	215-2
0.90	840-2	122-2	854-2	155-3	858-2	545-3	394-2	689-4	381-2	322-3	268-2	410-4	225-2	238-3	219-2	308-4	166-2
0.95	883-3	586-3	379-2	664-4	387-2	461-3	309-2	523-4	304-2	337-3	236-2	384-4	223-2	239-3	186-2	278-4	158-2
1.00	427-2	124-2	791-2	125-3	779-2	542-3	348-2	554-4	341-2	357-3	240-2	367-4	224-2	284-3	172-2	297-4	178-2
1.10	361-2	935-3	543-2	790-4	534-2	655-3	403-2	554-4	374-2	486-3	300-2	412-4	277-2	336-3	221-2	289-4	192-2
1.20	620-2	120-2	631-2	856-4	631-2	616-3	343-2	438-4	322-2	404-3	241-2	288-4	211-2	309-3	199-2	225-4	162-2
1.30	761-2	160-2	776-2	974-4	777-2	701-3	375-2	425-4	339-2	501-3	229-2	305-4	242-2	378-3	183-2	236-4	183-2
1.40	238-2	101-2	468-2	531-4	457-2	719-3	345-2	375-4	322-2	518-3	270-2	271-4	232-2	377-3	209-2	202-4	169-2
1.50	410-2	988-3	422-2	443-4	414-2	614-3	305-2	279-4	257-2	445-3	255-2	203-4	186-2	323-3	202-2	150-4	135-2
1.60	170-2	549-3	260-2	219-4	215-2	473-3	234-2	189-4	185-2	392-3	203-2	158-4	154-2	300-3	170-2	125-4	117-2
1.70	737-3	443-3	234-2	155-4	163-2	391-3	215-2	138-4	144-2	328-3	191-2	117-4	121-2	277-3	162-2	103-4	102-2
1.80	642-3	486-3	195-2	153-4	169-2	423-3	177-2	134-4	131-2	350-3	162-2	111-4	122-2	284-3	145-2	930-5	994-3
1.90	711-3	460-3	183-2	130-4	152-2	397-3	168-2	112-4	147-2	352-3	157-2	100-4	116-2	295-3	144-2	858-5	977-3
2.00	222-2	797-3	254-2	203-4	250-2	424-3	182-2	108-4	133-2	365-3	168-2	938-5	114-2	295-3	150-2	781-5	928-3
2.20	152-2	534-3	199-2	113-4	152-2	379-3	184-2	804-5	108-2	327-3	167-2	706-5	934-3	311-3	146-2	715-5	890-3
2.40	473-3	462-3	159-2	821-5	132-2	405-3	147-2	721-5	106-2	389-3	135-2	707-5	101-2	366-3	124-2	687-5	958-3
2.60	803-3	548-3	189-2	829-5	132-2	508-3	166-2	722-5	122-2	458-3	141-2	703-5	110-2	416-3	117-2	687-5	100-2
2.80	133-2	684-3	170-2	893-5	153-2	616-3	142-2	806-5	138-2	551-3	122-2	732-5	123-2	466-3	114-2	657-5	104-2
3.00	149-2	845-3	210-2	961-5	177-2	682-3	187-2	775-5	142-2	608-3	163-2	702-5	127-2	511-3	139-2	624-5	107-2
3.20	194-2	101-2	244-2	100-4	198-2	729-3	215-2	729-5	143-2	649-3	182-2	653-5	127-2	551-3	149-2	585-5	108-2
3.40	134-2	100-2	205-2	893-5	186-2	753-3	185-2	667-5	139-2	663-3	162-2	596-5	122-2	586-3	138-2	548-5	108-2
3.60	159-2	993-3	209-2	783-5	173-2	831-3	193-2	657-5	145-2	687-3	172-2	546-5	120-2	633-3	150-2	516-5	110-2
3.80	948-3	896-3	212-2	634-5	148-2	822-3	196-2	583-5	135-2	731-3	179-2	524-5	120-2	678-3	160-2	499-5	112-2
4.00	151-2	106-2	208-2	677-5	166-2	981-3	199-2	628-5	154-2	879-3	186-2	569-5	138-2	742-3	167-2	499-5	116-2
4.20	154-2	119-2	210-2	695-5	179-2	111-2	201-2	646-5	166-2	997-3	189-2	587-5	149-2	842-3	172-2	516-5	126-2
4.40	124-2	131-2	209-2	695-5	188-2	122-2	201-2	646-5	174-2	109-2	190-2	584-5	156-2	929-3	173-2	517-5	132-2
4.60	144-2	141-2	205-2	583-5	193-2	131-2	198-2	636-5	179-2	118-2	188-2	575-5	161-2	100-2	173-2	503-5	136-2
4.80	148-2	148-2	218-2	658-5	194-2	138-2	200-2	614-5	180-2	124-2	185-2	559-5	162-2	105-2	172-2	486-5	138-2
5.00	172-2	152-2	234-2	622-5	191-2	141-2	215-2	582-5	178-2	128-2	192-2	533-5	161-2	109-2	169-2	467-5	136-2
5.50	159-2	151-2	238-2	532-5	179-2	145-2	228-2	491-5	165-2	128-2	214-2	442-5	147-2	109-2	195-2	400-5	124-2
6.00	143-2	180-2	255-2	514-5	189-2	166-2	244-2	474-5	174-2	149-2	230-2	427-5	150-2	124-2	211-2	363-5	130-2
6.50	207-2	230-2	272-2	557-5	222-2	193-2	253-2	469-5	186-2	171-2	236-2	421-5	165-2	144-2	218-2	367-5	139-2
7.00	203-2	248-2	255-2	518-5	222-2	211-2	246-2	443-5	189-2	190-2	236-2	408-5	171-2	162-2	220-2	365-5	145-2
7.50	224-2	291-2	245-2	529-5	244-2	238-2	239-2	433-5	199-2	199-2	231-2	373-5	167-2	170-2	217-2	342-5	143-2
8.00	266-2	339-2	284-2	542-5	266-2	258-2	251-2	414-5	203-2	217-2	223-2	352-5	171-2	182-2	212-2	309-5	142-2
8.50	179-2	315-2	281-2	446-5	233-2	275-2	252-2	390-5	203-2	238-2	216-2	342-5	176-2	203-2	205-2	301-5	150-2
9.00	225-2	336-2	275-2	424-5	234-2	292-2	244-2	370-5	204-2	252-2	206-2	325-5	175-2	216-2	197-2	292-5	151-2
9.50	266-2	403-2	266-2	457-5	266-2	297-2	226-2	337-5	196-2	257-2	205-2	300-5	170-2	222-2	189-2	275-5	147-2
10.00	220-2	369-2	237-2	377-5	232-2	310-2	226-2	318-5	195-2	261-2	212-2	271-5	164-2	223-2	192-2	253-5	140-2
11.00	158-2	364-2	237-2	308-5	208-2	310-2	228-2	262-5	177-2	262-2	217-2	224-5	149-2	220-2	200-2	205-5	126-2
12.00	221-2	445-2	236-2	315-5	233-2	308-2	227-2	219-5	161-2	269-2	215-2	196-5	141-2	230-2	200-2	175-5	120-2
13.00	233-2	483-2	234-2	292-5	233-2	339-2	227-2	205-5	164-2	265-2	217-2	162-5	128-2	228-2	201-2	150-5	110-2
14.00	175-2	394-2	228-2	205-5	176-2	294-2	222-2	153-5	132-2	265-2	214-2	140-5	118-2	240-2	200-2	135-5	107-2
15.00	939-3	305-2	219-2	138-5	127-2	285-2	214-2	130-5	119-2	270-2	208-2	125-5	113-2	253-2	197-2	124-5	106-2

DAMPING = 0 PER CENT DAMPING = 2 PER CENT DAMPING = 5 PER CENT DAMPING = 10 PER CENT DAMPING = 20 PER CENT

RELATIVE VELOCITY RESPONSE SPECTRUM
NORTHERN CALIFORNIA EARTHQUAKE OCT 3, 1941 - 0814 PST
111U300 41.003.0 CITY HALL, FERNDALE, CALIFORNIA COMP N45W
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

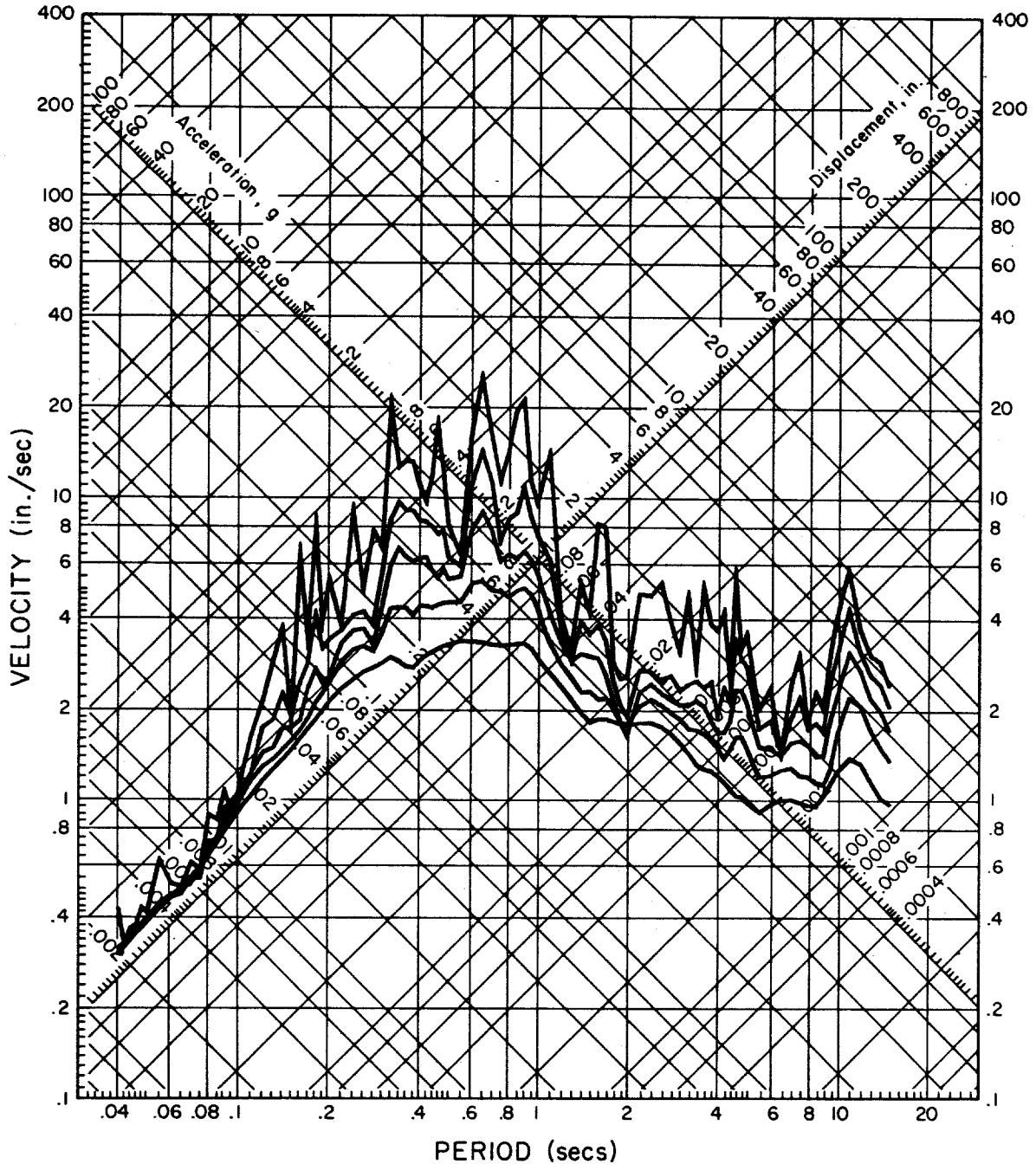


RESPONSE SPECTRUM

NORTHERN CALIFORNIA EARTHQUAKE OCT 3, 1941 - 0814 PST

111U300 41.003.0 CITY HALL, FERNDALE, CALIFORNIA COMP N45H

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



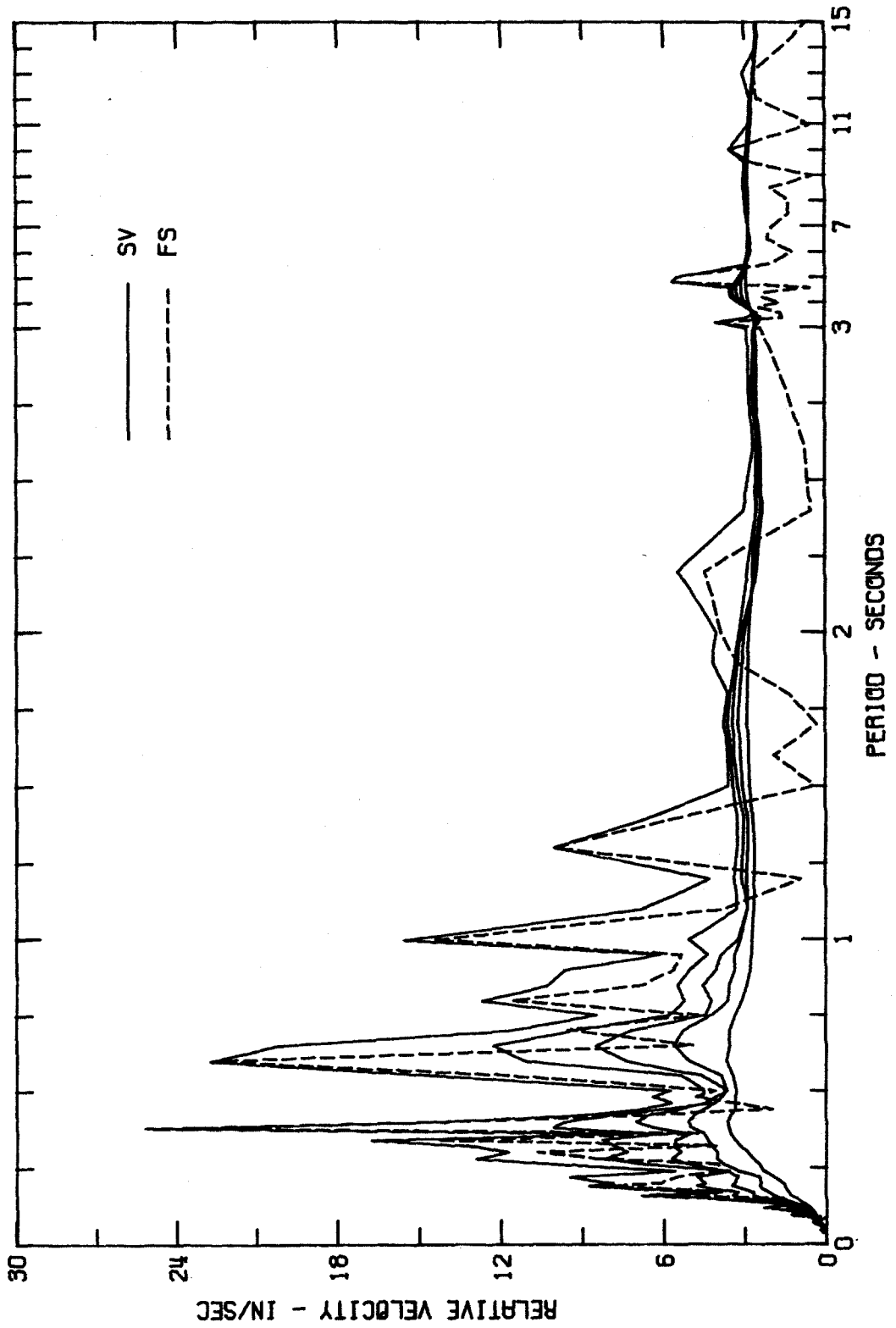
NORTHERN CALIFORNIA EARTHQUAKE OCT 3, 1941 - 0814 PST

IITU300 41.003.0 CITY HALL, FERDALE, CALIFORNIA COMP N45W

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

	DAMPING = 0 PER CENT				DAMPING = 2 PER CENT				DAMPING = 5 PER CENT				DAMPING = 10 PER CENT				DAMPING = 20 PER CENT				
PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.040	159-3	268-5	282-3	171-3	422-3	197-5	877-4	126-3	310-3	191-5	546-4	122-3	301-3	189-5	504-4	121-3	298-3	190-5	464-4	121-3	298-3
0.042	125-3	214-5	127-3	124-3	320-3	217-5	656-4	126-3	325-3	214-5	580-4	124-3	320-3	212-5	552-4	123-3	317-3	211-5	509-4	122-3	315-3
0.044	573-4	254-5	113-3	134-3	363-3	243-5	656-4	128-3	347-3	239-5	650-4	126-3	341-3	235-5	603-4	124-3	336-3	232-5	562-4	123-3	332-3
0.046	958-4	274-5	113-3	132-3	375-3	271-5	885-4	131-3	370-3	264-5	770-4	127-3	360-3	260-5	672-4	125-3	355-3	255-5	618-4	124-3	349-3
0.048	193-3	326-5	210-3	144-3	427-3	286-5	101-3	126-3	374-3	288-5	893-4	127-3	377-3	284-5	742-4	126-3	372-3	279-5	675-4	124-3	365-3
0.050	102-3	325-5	140-3	132-3	408-3	311-5	103-3	127-3	391-3	313-5	927-4	128-3	393-3	309-5	781-4	126-3	389-3	304-5	737-4	125-3	382-3
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0.060	199-3	489-5	213-3	139-3	512-3	438-5	145-3	124-3	459-3	448-5	143-3	127-3	469-3	443-5	127-3	126-3	464-3	438-5	112-3	125-3	459-3
0.065	165-3	517-5	186-3	125-3	499-3	498-5	190-3	118-3	472-3	503-5	172-3	121-3	486-3	509-5	153-3	123-3	492-3	515-5	134-3	125-3	497-3
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0.075	204-3	677-5	296-3	123-3	567-3	637-5	262-3	115-3	533-3	677-5	229-3	123-3	567-3	693-5	209-3	126-3	580-3	704-5	185-3	128-3	590-3
0.080	217-3	111-4	364-3	178-3	879-3	907-5	280-3	145-3	712-3	857-5	265-3	137-3	673-3	832-5	245-3	133-3	653-3	823-5	215-3	132-3	646-3
0.085	443-3	114-4	464-3	161-3	843-3	982-5	308-3	138-3	726-3	999-5	299-3	141-3	739-3	988-5	280-3	139-3	731-3	958-5	243-3	137-3	708-3
0.090	139-3	150-4	491-3	190-3	105-2	131-4	424-3	166-3	919-3	122-4	363-3	154-3	856-3	116-4	319-3	148-3	815-3	110-4	281-3	141-3	773-3
0.095	461-3	133-4	714-3	151-3	882-3	148-4	441-3	168-3	981-3	143-4	397-3	163-3	948-3	135-4	364-3	155-3	899-3	126-4	330-3	145-3	837-3
0.100	437-3	168-4	770-3	172-3	106-2	166-4	521-3	170-3	104-2	161-4	492-3	166-3	101-2	155-4	440-3	159-3	975-3	144-4	386-3	148-3	905-3
0.110	368-3	284-4	109-2	240-3	162-2	212-4	804-3	180-3	121-2	213-4	679-3	179-3	121-2	200-4	624-3	170-3	114-2	179-4	504-3	156-3	102-2
0.120	152-2	400-4	194-2	284-3	209-2	330-4	158-2	235-3	172-2	271-4	109-2	192-3	142-2	243-4	811-3	174-3	127-2	218-4	639-3	160-3	114-2
0.130	203-2	586-4	267-2	355-3	283-2	378-4	156-2	230-3	182-2	305-4	118-2	183-3	147-2	279-4	935-3	169-3	135-2	259-4	756-3	160-3	125-2
0.140	335-2	820-4	338-2	428-3	368-2	499-4	188-2	260-3	224-2	382-4	141-2	199-3	171-2	326-4	107-2	172-3	146-2	300-4	869-3	161-3	134-2
0.150	809-3	434-4	154-2	197-3	181-2	444-4	148-2	202-3	186-2	411-4	142-2	188-3	172-2	372-4	121-2	172-3	156-2	348-4	993-3	164-3	146-2
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0.170	227-2	909-4	302-2	322-3	336-2	767-4	244-2	271-3	283-2	631-4	188-2	223-3	233-2	501-4	148-2	178-3	185-2	463-4	122-2	170-3	171-2
0.180	772-2	229-3	773-2	723-3	799-2	117-3	390-2	368-3	409-2	772-4	242-2	243-3	269-2	600-4	173-2	189-3	209-2	526-4	135-2	173-3	183-2
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0.200	377-2	169-3	529-2	434-3	533-2	107-3	298-2	275-3	338-2	805-4	226-2	203-3	253-2	770-4	201-2	194-3	242-2	671-4	154-2	176-3	210-2
0.220	132-2	130-3	344-2	275-3	372-2	126-3	343-2	267-3	361-2	114-3	299-2	243-3	328-2	100-3	244-2	214-3	285-2	813-4	175-2	181-3	232-2
0.240	781-2	345-3	882-2	513-3	903-2	155-3	374-2	276-3	407-2	137-3	326-2	244-3	360-2	119-3	264-2	216-3	312-2	951-4	188-2	182-3	249-2
0.260	429-2	205-3	485-2	310-3	495-2	172-3	390-2	263-3	417-2	151-3	325-2	232-3	366-2	132-3	266-2	202-3	320-2	109-3	193-2	176-3	264-2
0.280	775-2	344-3	772-2	449-3	773-2	167-3	349-2	216-3	375-2	143-3	286-2	186-3	322-2	137-3	249-2	184-3	308-2	121-3	208-2	168-3	272-2
0.300	463-3	322-3	624-2	366-3	675-2	273-3	519-2	309-3	572-2	209-3	397-2	237-3	438-2	170-3	290-2	199-3	357-2	134-3	238-2	166-3	282-2
0.320	191-1	104-2	201-1	104-2	204-1	432-3	822-2	432-3	849-2	305-3	531-2	301-3	599-2	218-3	367-2	219-3	428-2	150-3	269-2	163-3	295-2
0.340	969-2	678-3	123-1	600-3	125-1	520-3	927-2	459-3	962-2	366-3	634-2	325-3	677-2	233-3	418-2	211-3	430-2	155-3	288-2	150-3	286-2
0.360	118-1	754-3	130-1	593-3	131-1	517-3	907-2	410-3	902-2	362-3	650-2	288-3	632-2	245-3	415-2	198-3	428-2	157-3	284-2	134-3	274-2
0.380	966-2	790-3	130-1	559-3	130-1	544-3	864-2	386-3	900-2	369-3	572-2	261-3	611-2	245-3	372-2	179-3	406-2	164-3	268-2	123-3	272-2
0.400	931-2	692-3	113-1	442-3	108-1	531-3	813-2	338-3	834-2	399-3	586-2	254-3	627-2	278-3	417-2	180-3	438-2	183-3	269-2	124-3	287-2
0.420	899-2	644-3	948-2	373-3	964-2	554-3	828-2	321-3	829-2	422-3	611-2	247-3	632-2	290-3	425-2	170-3	434-2	199-3	274-2	122-3	299-2
0.440	804-2	813-3	115-1	429-3	116-1	557-3	742-2	295-3	796-2	399-3	570-2	210-3	570-2	302-3	397-2	162-3	431-2	214-3	291-2	120-3	306-2
0.460	128-1	128-2	173-1	620-3	175-1	550-3	742-2	266-3	752-2	393-3	480-2	192-3	537-2	321-3	397-2	158-3	439-2	230-3	300-2	118-3	314-2
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RELATIVE VELOCITY RESPONSE SPECTRUM
NORTHERN CALIFORNIA EARTHQUAKE OCT 3, 1941 - 0814 PST
111U300 41.003.0 CITY HALL, FERNDALE, CALIFORNIA COMP S45W
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

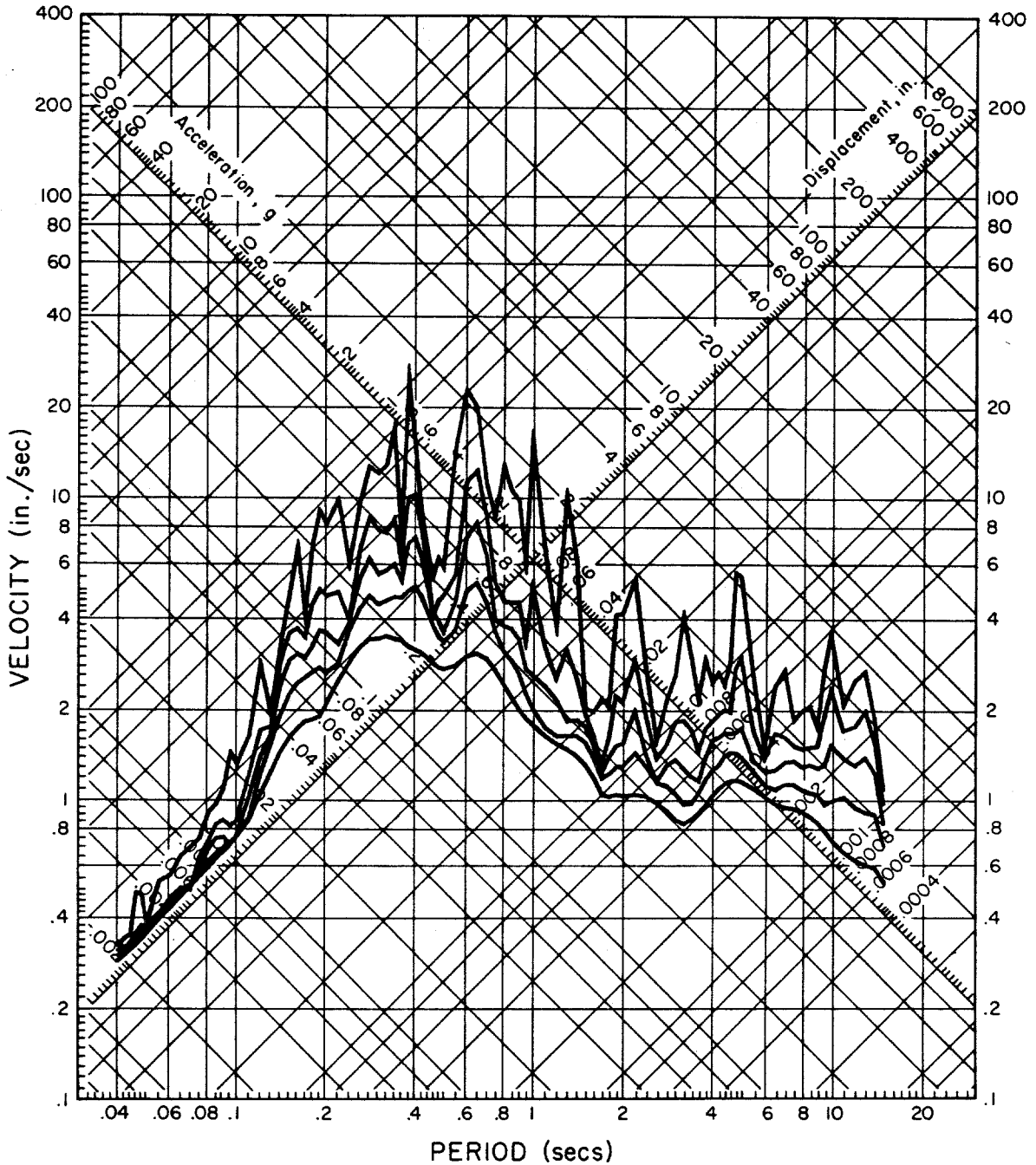


RESPONSE SPECTRUM

NORTHERN CALIFORNIA EARTHQUAKE OCT 3, 1941 - 0814 PST

IIIU300 41.003.0 CITY HALL, FERNDALE, CALIFORNIA COMP S45W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



NORTHERN CALIFORNIA EARTHQUAKE OCT 3, 1941 - 0814 PST

IIU300 41.003.0 CITY HALL, FERNDALE, CALIFORNIA COMP S4SW

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

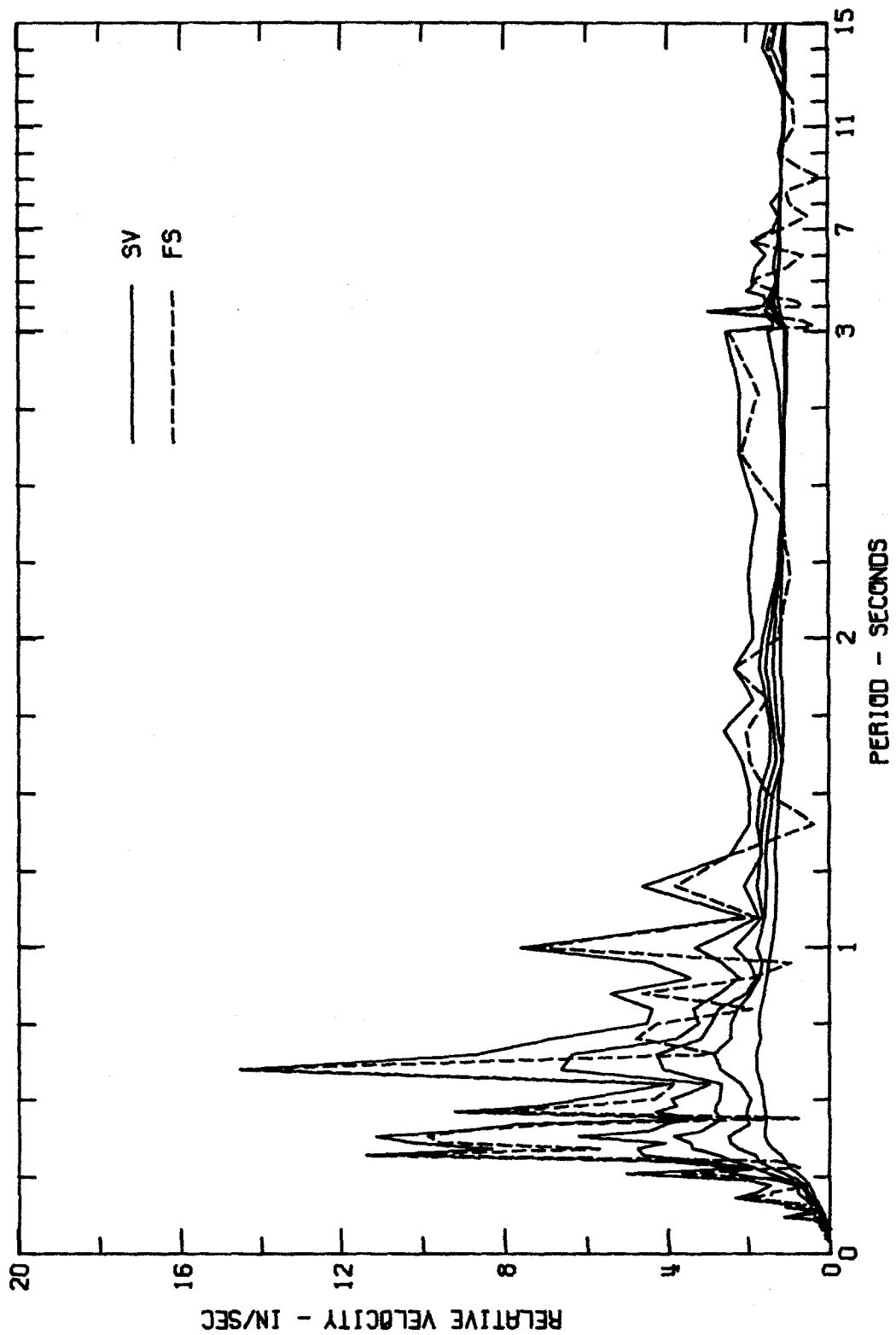
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0.042	508-4	226-5	134-3	131-3	338-3	208-5	116-3	120-3	311-3	209-5	110-3	121-3	313-3	205-5	954-4	118-3	307-3
0.044	144-3	245-5	152-3	129-3	350-3	229-5	129-3	121-3	327-3	227-5	120-3	120-3	324-3	222-5	105-3	117-3	317-3
0.046	247-3	353-5	257-3	170-3	482-3	257-5	154-3	124-3	352-3	245-5	136-3	119-3	335-3	240-5	117-3	117-3	329-3
0.048	191-3	362-5	263-3	160-3	473-3	285-5	174-3	126-3	374-3	272-5	149-3	121-3	356-3	265-5	127-3	118-3	347-3
0.050	108-3	297-5	144-3	121-3	373-3	296-5	172-3	121-3	372-3	298-5	157-3	122-3	374-3	290-5	137-3	119-3	365-3
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0.095	575-3	206-4	810-3	211-3	130-2	134-4	561-3	138-3	847-3	120-4	558-3	123-3	754-3	119-4	485-3	122-3	751-3
0.100	149-2	286-4	156-2	241-3	163-2	213-4	673-3	180-3	122-2	178-4	791-3	151-3	102-2	152-4	629-3	130-3	870-3
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IIIIU300 41.003.0 CITY HALL, FERNDALE, CALIFORNIA COMP S45W

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	DAMPING = 0 PER CENT	DAMPING = 2 PER CENT	DAMPING = 5 PER CENT	DAMPING = 10 PER CENT	DAMPING = 20 PER CENT
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0.80	116-1	162-2	127-1	260-3	127-1	577-3	523-2	926-4	453-2	481-3	425-2	774-4	377-2	394-3	360-2	652-4	309-2	306-3	310-2	576-4	240-2	
0.85	681-2	142-2	102-1	201-3	105-1	610-3	550-2	863-4	450-2	498-3	456-2	709-4	368-2	392-3	357-2	564-4	289-2	296-3	293-2	508-4	219-2	
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RELATIVE VELOCITY RESPONSE SPECTRUM
NORTHERN CALIFORNIA EARTHQUAKE OCT 3, 1941 - 0814 PST
111U300 41.003.0 CITY HALL, FERNDALE, CALIFORNIA COMP UP
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

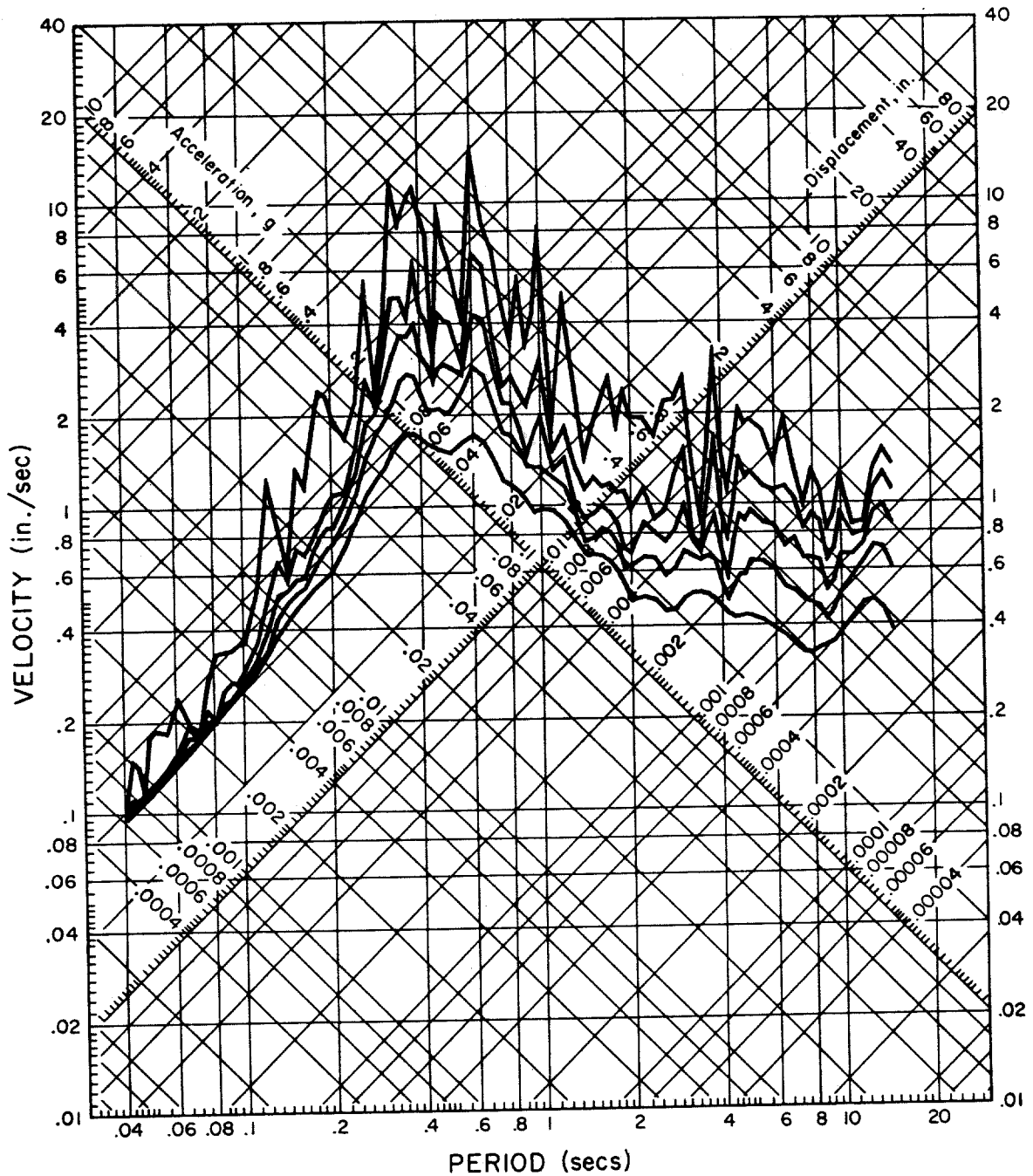


RESPONSE SPECTRUM

NORTHERN CALIFORNIA EARTHQUAKE OCT 3, 1941 - 0814 PST

111U300 41.003.0 CITY HALL, FERNDALE, CALIFORNIA COMP UP

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

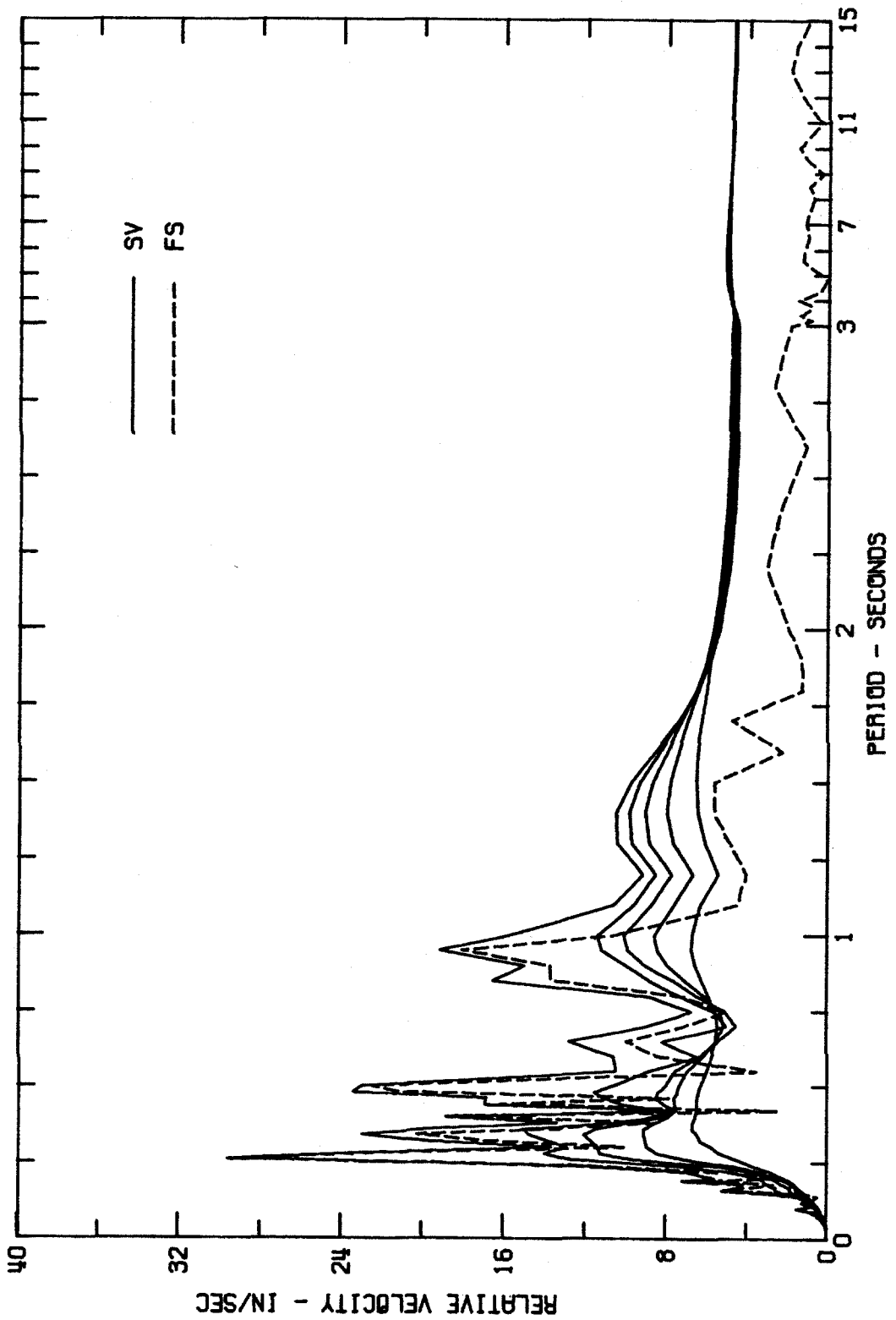


IIIU300 41.003.0 CITY HALL, FERDALE, CALIFORNIA COMP UP

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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RELATIVE VELOCITY RESPONSE SPECTRUM
NORTHERN CALIFORNIA EARTHQUAKE MAR 9, 1949 - 0429 PST
111U301 49.001.0 PUBLIC LIBRARY, HOLLISTER, CALIFORNIA COMP N89W
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

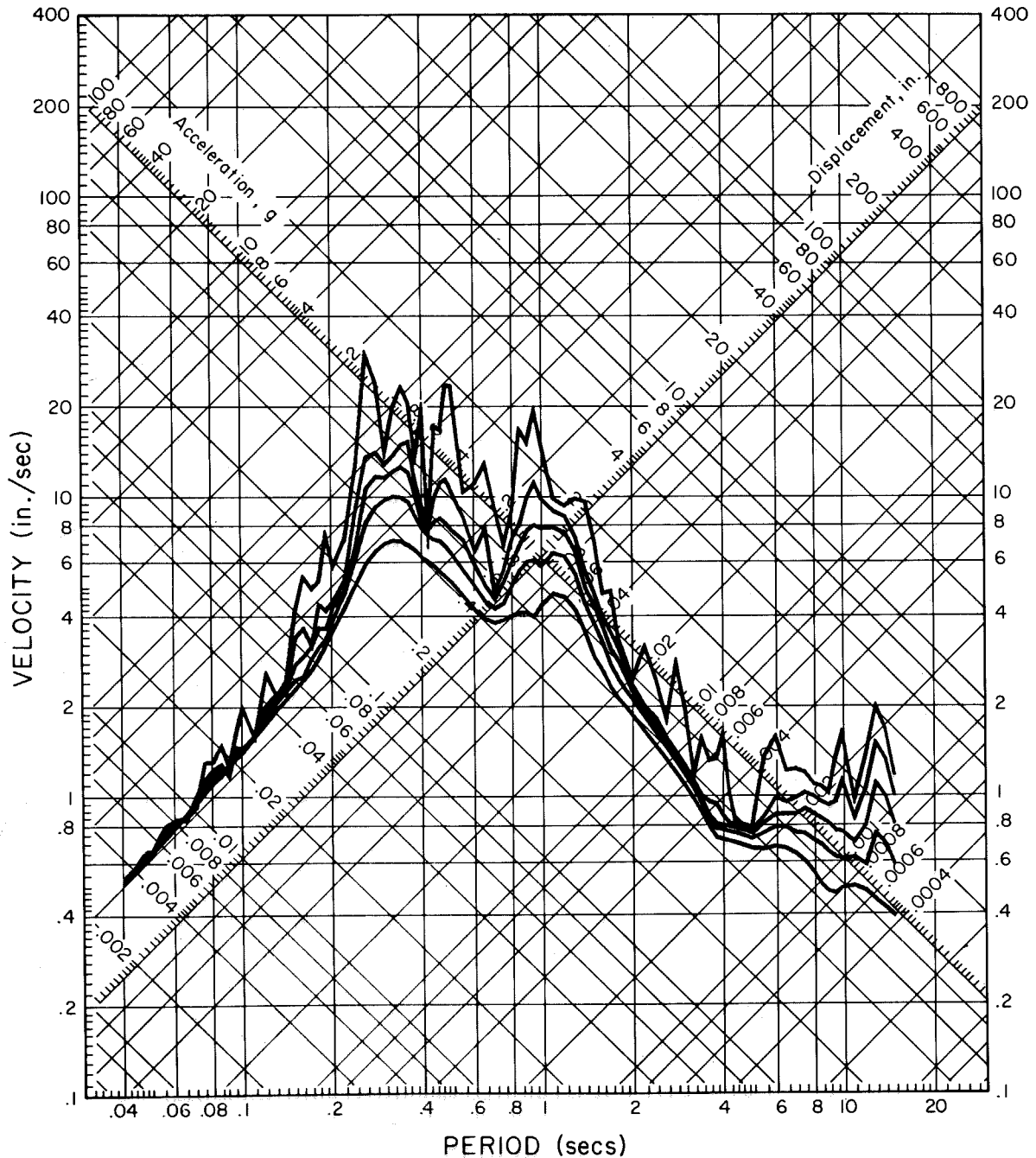


RESPONSE SPECTRUM

NORTHERN CALIFORNIA EARTHQUAKE MAR 9, 1949 - 0429 PST

IIU301 49.001.0 PUBLIC LIBRARY, HOLLISTER, CALIFORNIA COMP N89W

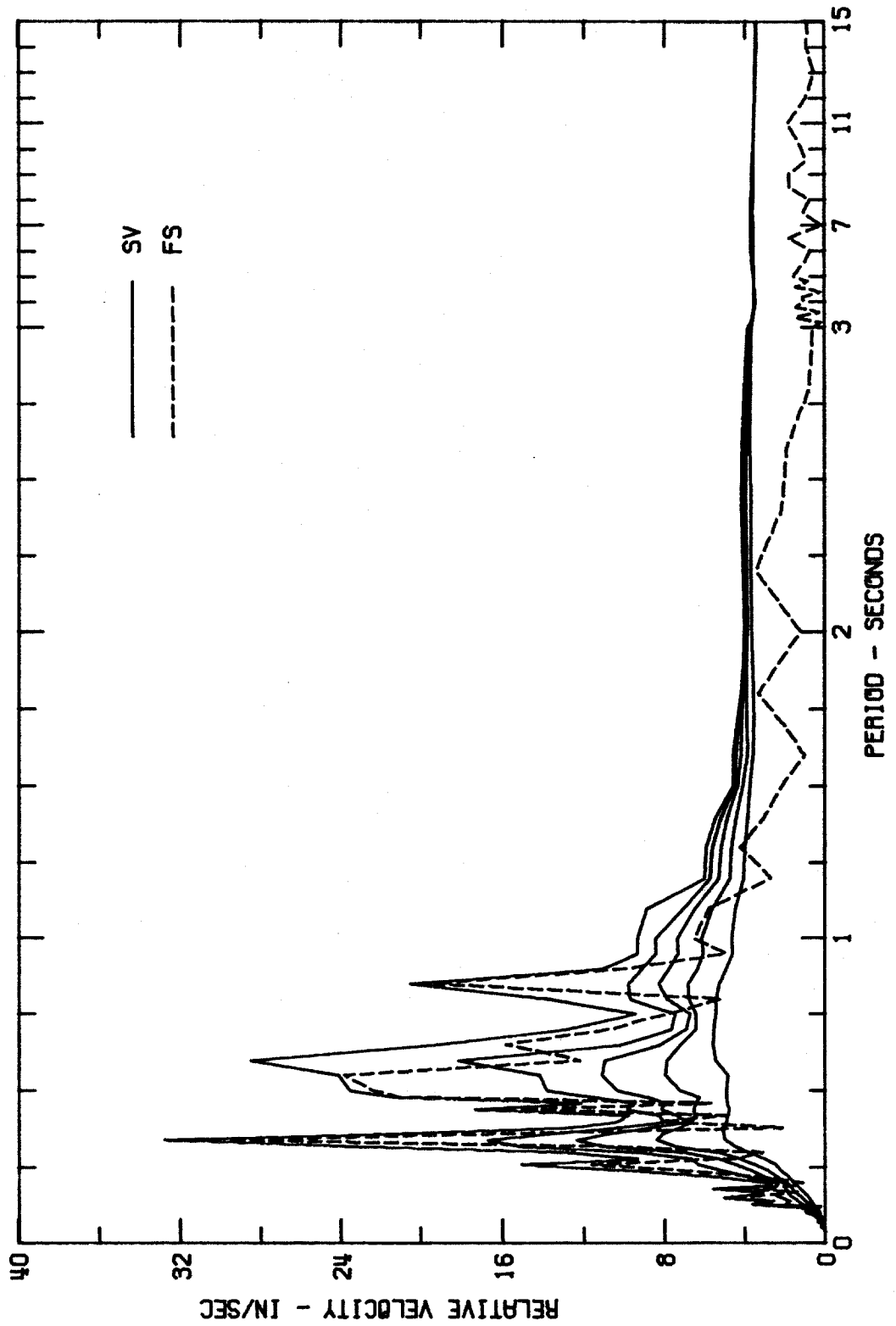
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THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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RELATIVE VELOCITY RESPONSE SPECTRUM
NORTHERN CALIFORNIA EARTHQUAKE MAR 9, 1949 - 0429 PST
111U301 49.001.0 PUBLIC LIBRARY, HOLLISTER, CALIFORNIA COMP S01W
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

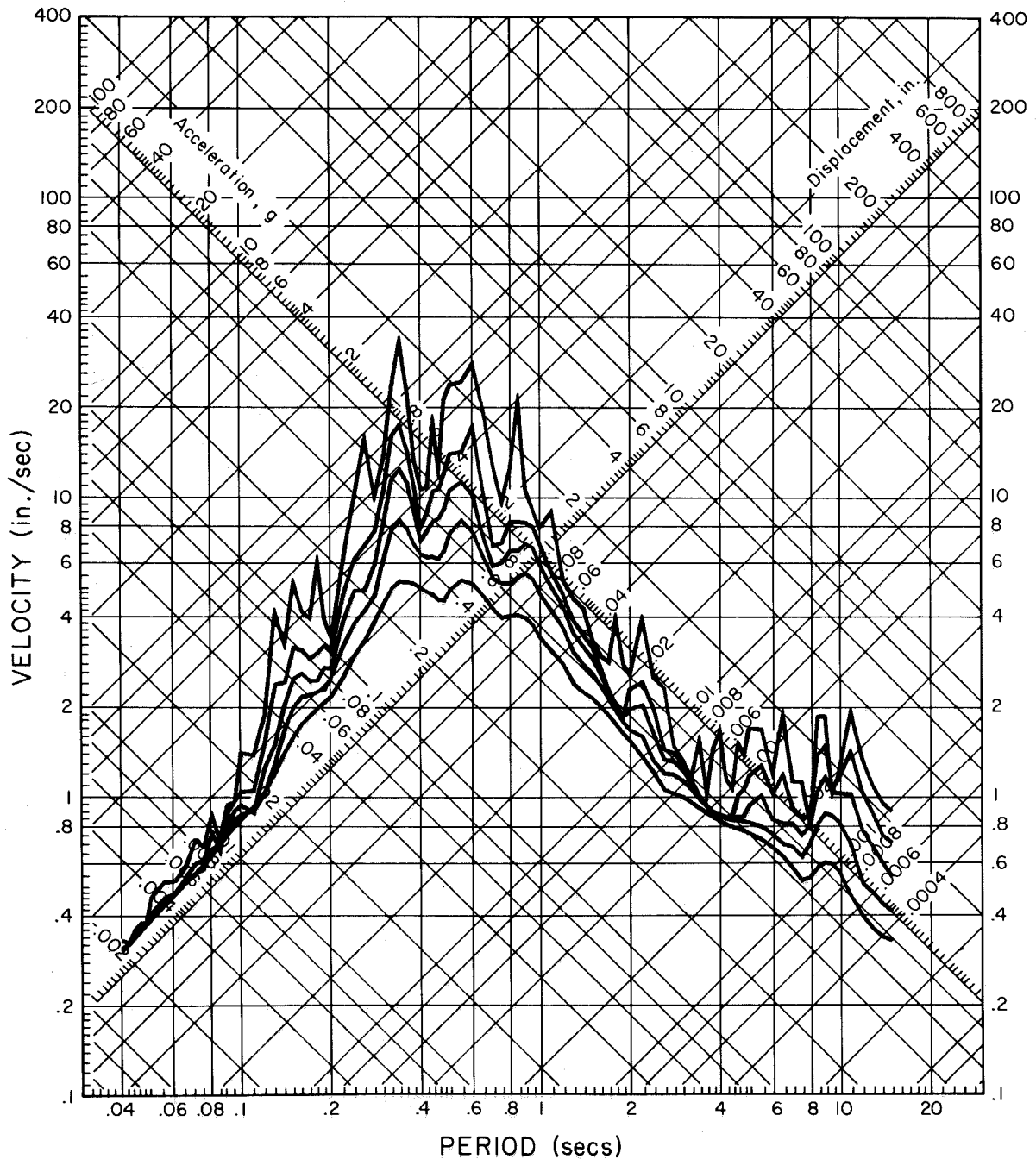


RESPONSE SPECTRUM

NORTHERN CALIFORNIA EARTHQUAKE MAR 9, 1949 - 0429 PST

IIU301 49.001.0 PUBLIC LIBRARY, HOLLISTER, CALIFORNIA COMP S01W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

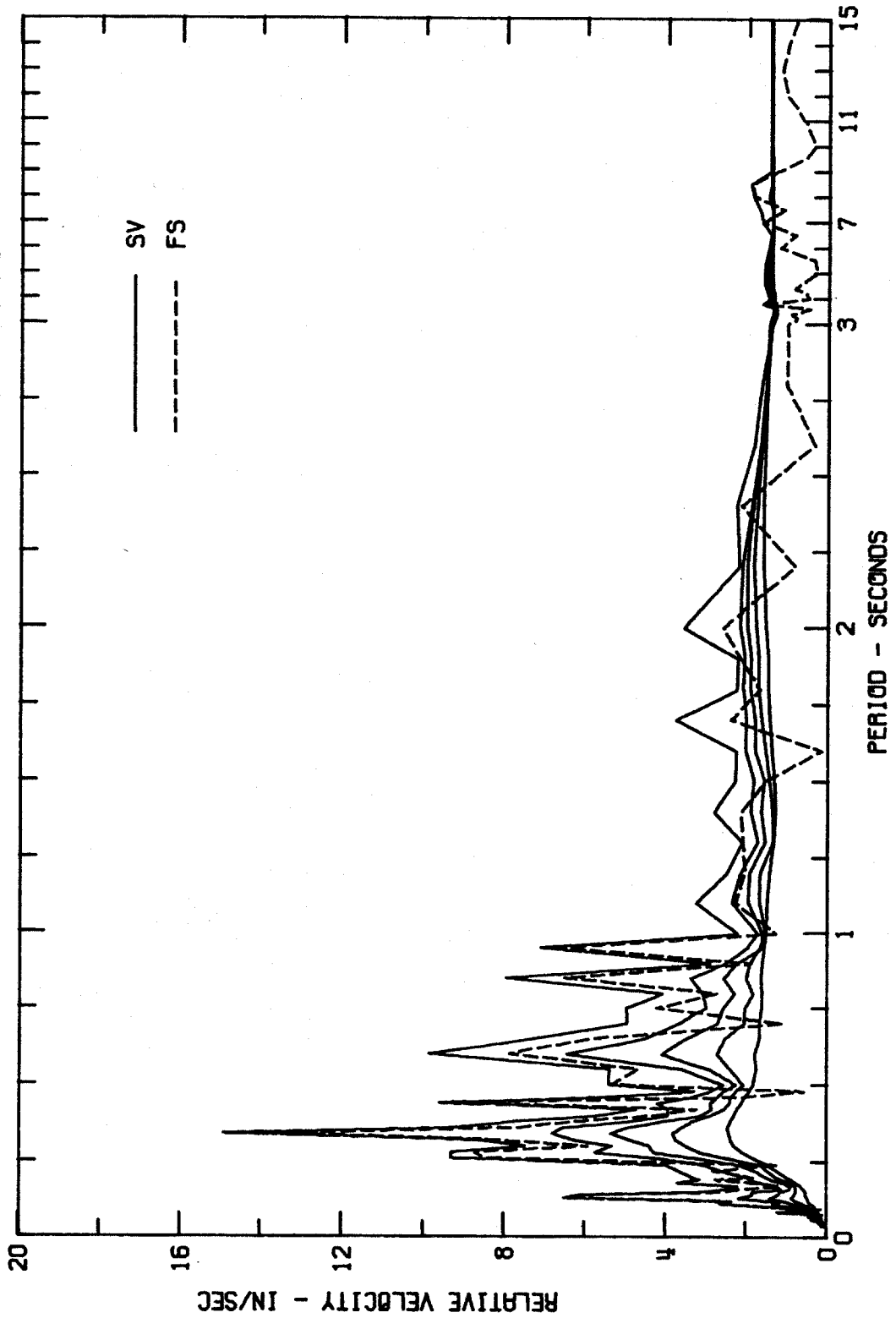
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0.042	305-4	214-5	630-4	124-3	320-3	214-5	467-4	124-3	320-3	213-5	453-4	124-3	320-3	213-5	442-4	123-3	319-3	212-5	436-4	123-3	317-3
0.044	387-4	247-5	670-4	130-3	353-3	237-5	508-4	125-3	339-3	236-5	484-4	124-3	337-3	235-5	476-4	124-3	336-3	233-5	477-4	123-3	333-3
0.046	567-4	272-5	917-4	131-3	371-3	262-5	551-4	126-3	358-3	260-5	530-4	125-3	355-3	259-5	524-4	125-3	353-3	256-5	519-4	124-3	350-3
0.048	495-4	285-5	768-4	126-3	374-3	281-5	625-4	124-3	368-3	284-5	597-4	126-3	372-3	283-5	582-4	126-3	371-3	280-5	565-4	124-3	367-3
0.050	760-4	364-5	131-3	149-3	458-3	319-5	785-4	130-3	401-3	313-5	688-4	128-3	393-3	309-5	649-4	126-3	388-3	305-5	620-4	125-3	383-3
0.055	192-3	446-5	210-3	151-3	510-3	395-5	999-4	133-3	451-3	383-5	872-4	129-3	438-3	377-5	803-4	127-3	430-3	371-5	764-4	126-3	424-3
0.060	114-3	493-5	147-3	140-3	516-3	448-5	108-3	127-3	470-3	447-5	101-3	127-3	468-3	448-5	967-4	127-3	469-3	444-5	935-4	126-3	465-3
0.065	108-3	595-5	209-3	144-3	575-3	546-5	145-3	132-3	528-3	539-5	129-3	130-3	521-3	528-5	119-3	127-3	511-3	522-5	112-3	126-3	505-3
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0.080	160-3	109-4	384-3	174-3	857-3	946-5	280-3	151-3	743-3	842-5	222-3	134-3	661-3	809-5	196-3	129-3	635-3	805-5	170-3	129-3	632-3
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0.100	445-3	220-4	959-3	225-3	138-2	163-4	486-3	167-3	102-2	147-4	372-3	150-3	924-3	136-4	299-3	139-3	860-3	131-4	277-3	135-3	826-3
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0.130	353-2	845-4	368-2	511-3	408-2	485-4	202-2	295-3	234-2	305-4	117-2	186-3	147-2	264-4	779-3	160-3	127-2	246-4	579-3	152-3	119-2
0.140	257-2	710-4	286-2	370-3	318-2	532-4	177-2	279-3	239-2	447-4	136-2	232-3	200-2	369-4	102-2	195-3	165-2	312-4	711-3	166-3	140-2
0.150	483-2	122-3	510-2	557-3	513-2	744-4	222-2	339-3	311-2	588-4	163-2	270-3	246-2	473-4	118-2	217-3	198-2	377-4	815-3	176-3	158-2
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0.180	489-2	172-3	564-2	543-3	601-2	858-4	281-2	270-3	299-2	695-4	198-2	220-3	242-2	636-4	165-2	201-3	222-2	559-4	140-2	182-3	204-2
0.190	139-2	115-3	293-2	328-3	383-2	958-4	243-2	270-3	316-2	806-4	205-2	230-3	266-2	685-4	177-2	196-3	226-2	619-4	140-2	182-3	204-2
0.200	108-2	106-3	267-2	271-3	333-2	949-4	234-2	243-3	298-2	847-4	208-2	219-3	266-2	789-4	189-2	203-3	247-2	681-4	157-2	182-3	214-2
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0.260	116-1	644-3	151-1	975-3	155-1	283-3	636-2	428-3	686-2	200-3	448-2	308-3	485-2	171-3	355-2	264-3	414-2	136-3	305-2	216-3	329-2
0.280	445-2	444-3	931-2	579-3	996-2	341-3	675-2	444-3	765-2	264-3	537-2	345-3	592-2	208-3	431-2	277-3	667-2	171-3	305-2	233-3	383-2
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0.380	214-2	796-3	127-1	563-3	131-1	646-3	103-1	457-3	106-1	535-3	875-2	381-3	885-2	418-3	725-2	305-3	691-2	308-3	512-2	236-3	510-2
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0.440	151-1	123-2	174-1	550-3	175-1	726-3	991-2	383-3	103-1	577-3	817-2	303-3	824-2	438-3	658-2	236-3	625-2	327-3	479-2	190-3	468-2
0.460	552-2	896-3	120-1	433-3	122-1	774-3	944-2	373-3	105-1	618-3	803-2	298-3	844-2	451-3	644-2	222-3	617-2	329-3	490-2	177-3	450-2
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0.520	238-1	211-2	241-1	716-3	242-1	123-2	142-1	417-3	140-1	980-3	111-1	331-3	112-1	726-3	797-2	251-3	830-2	459-3	487-2	169-3	524-2
0.540	550	265-2	285-1	754-3	278-1	163-2	182-1	466-3	171-1	962-3	109-1	274-3	100-1	722-3	791-2	210-3	756-2	484-3	551-2	150-3	507-2
0.560	121-1	199-2	192-1	483-3	192-1	105-2	101-1	256-3	102-1	750-3	821-2	183-3	725-2	646-3	721-2	160-3	624-2	478-3	561-2	127-3	462-2
0.580	159-1	199-2	192-1	483-3	192-1	105-2	101-1	256-3	102-1	750-3	821-2	183-3	725-2	646-3	721-2	160-3	624-2	478-3	561-2	127-3	462-2
0.600	107-1	140-2	128-1	293-3	126-1	758-3	767-2	158-3	680-2	649-3	692-2	136-3	582-2	592-3	646-2	126-3	532-2	647-3	556-2	108-3	419-2

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.75	786-2	113-2	940-2	205-3	948-2	834-3	747-2	152-3	699-2	716-3	672-2	131-3	600-2	611-3	647-2	114-3	512-2
0.80	523-2	159-2	136-1	254-3	124-1	104-2	973-2	166-3	820-2	838-3	790-2	134-3	658-2	650-3	682-2	106-3	511-2
0.85	195-1	278-2	205-1	394-3	206-1	111-2	982-2	157-3	822-2	890-3	830-2	126-3	658-2	728-3	684-2	105-3	538-2
0.90	995-2	150-2	110-1	189-3	105-1	116-2	910-2	147-3	816-2	995-3	777-2	126-3	695-2	791-3	636-2	102-3	552-2
0.95	496-2	136-2	934-2	154-3	899-2	119-2	842-2	136-3	792-2	101-2	734-2	115-3	671-2	801-3	608-2	939-4	529-2
1.00	657-2	124-2	932-2	127-3	783-2	110-2	845-2	113-3	696-2	946-3	739-2	75-4	594-2	756-3	616-2	808-4	475-2
1.10	581-2	155-2	885-2	131-3	890-2	971-3	707-2	820-3	554-2	864-3	648-2	738-4	493-2	722-3	562-2	632-4	412-2
1.20	269-2	995-3	601-2	706-4	521-2	896-3	572-2	638-4	469-2	813-3	529-2	584-4	425-2	693-3	474-2	516-4	362-2
1.30	426-2	939-3	593-2	568-4	454-2	791-3	561-2	480-4	382-2	717-3	519-2	440-4	346-2	620-3	464-2	397-4	299-2
1.40	306-2	937-3	544-2	489-4	420-2	764-3	519-2	399-4	343-2	697-3	487-2	369-4	313-2	612-3	441-2	341-4	274-2
1.50	219-2	787-3	458-2	358-4	330-2	743-3	447-2	338-4	311-2	685-3	433-2	316-4	287-2	611-3	408-2	298-4	256-2
1.60	103-2	746-3	458-2	298-4	293-2	678-3	441-2	271-4	266-2	643-3	418-2	260-4	252-2	590-3	381-2	254-4	231-2
1.70	209-2	753-3	439-2	266-4	278-2	612-3	429-2	216-4	226-2	596-3	414-2	214-4	220-2	565-3	391-2	217-4	209-2
1.80	336-2	111-2	419-2	353-4	390-2	569-3	414-2	180-4	198-2	564-3	405-2	180-4	196-2	545-3	390-2	188-4	190-2
1.90	233-2	826-3	406-2	234-4	273-2	559-3	404-2	159-4	185-2	550-3	399-2	158-4	182-2	532-3	388-2	166-4	176-2
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2.20	349-2	135-2	411-2	286-4	387-2	835-3	407-2	176-4	238-2	703-3	400-2	152-4	200-2	551-3	392-2	101-4	130-2
2.40	217-2	945-3	418-2	167-4	247-2	742-3	412-2	132-4	194-2	545-3	392-2	111-4	160-2	522-3	384-2	814-5	117-2
2.60	192-2	943-3	413-2	142-4	227-2	588-3	408-2	897-5	142-2	545-3	400-2	865-5	131-2	490-3	390-2	869-5	118-2
2.80	784-3	648-3	401-2	846-5	145-2	617-3	397-2	814-5	138-2	576-3	392-2	697-5	120-2	533-3	377-2	737-5	111-2
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3.40	152-2	826-3	360-2	731-5	152-2	542-3	361-2	488-5	100-2	538-3	362-2	519-5	994-3	525-3	363-2	591-5	970-3
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5.50	109-2	145-2	364-2	493-5	166-2	110-2	362-2	373-5	125-2	874-3	361-2	304-5	999-3	688-3	359-2	336-5	787-3
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6.50	185-2	192-2	370-2	258-5	111-2	101-2	369-2	212-5	907-3	899-3	367-2	197-5	807-3	750-3	364-2	239-5	673-3
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7.50	110-2	132-2	368-2	163-5	801-3	109-2	367-2	174-5	857-3	801-2	366-2	162-5	794-3	882-3	363-2	188-5	693-3
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9.50	987-3	152-2	362-2	173-5	119-2	160-2	361-2	181-5	105-2	154-2	360-2	177-5	102-2	129-2	359-2	152-5	895-3
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12.00	972-3	252-2	350-2	179-5	132-2	194-2	350-2	138-5	102-2	145-2	351-2	104-5	760-3	967-3	351-2	100-5	506-3
13.00	569-3	221-2	346-2	134-5	107-2	179-2	347-2	108-5	866-3	139-2	347-2	848-6	673-3	977-3	348-2	922-6	472-3
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RELATIVE VELOCITY RESPONSE SPECTRUM
NORTHERN CALIFORNIA EARTHQUAKE MAR 9, 1949 - 0429 PST
111U301 49.001.0 PUBLIC LIBRARY, HOLLISTER, CALIFORNIA COMP UP
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

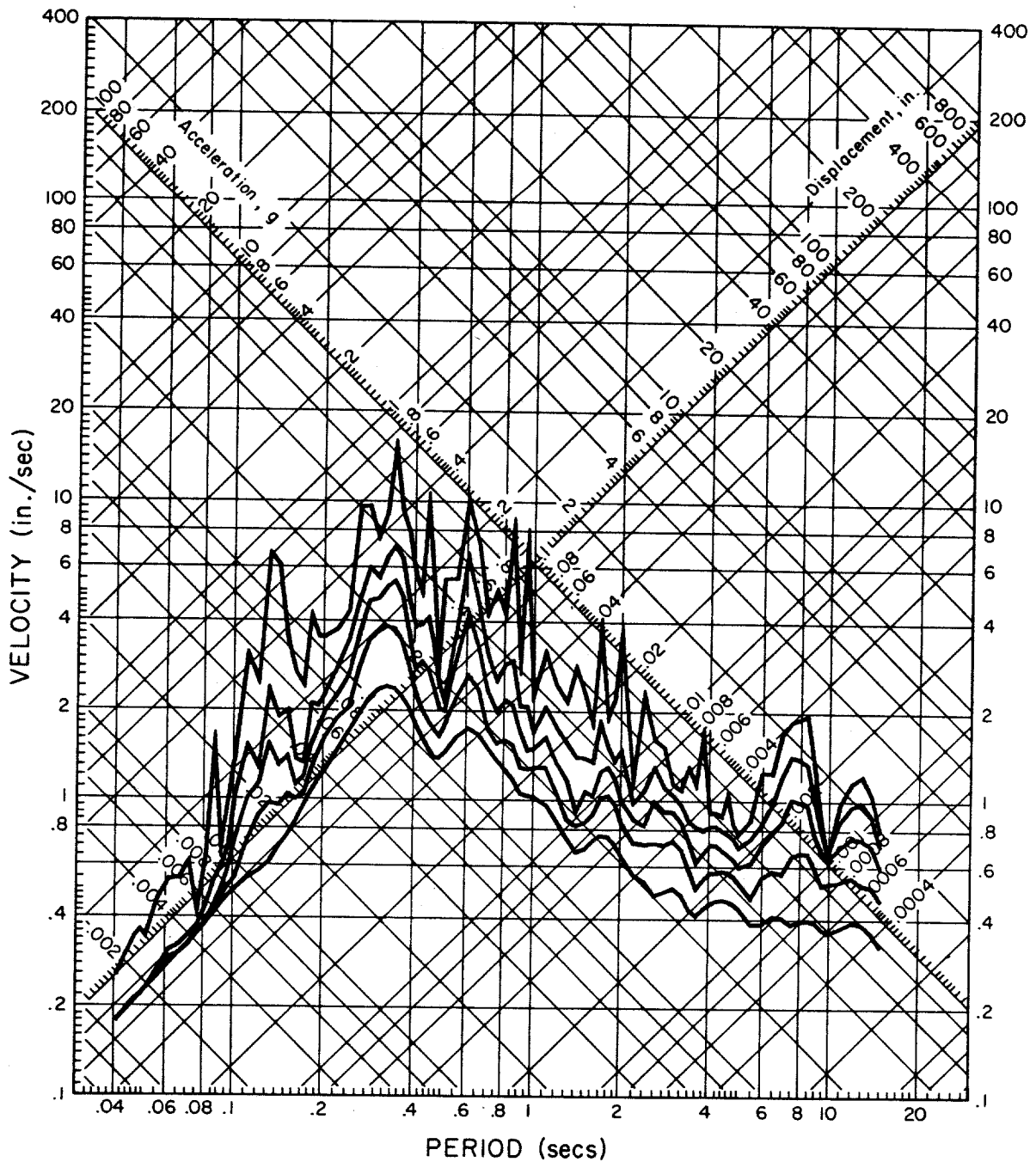


RESPONSE SPECTRUM

NORTHERN CALIFORNIA EARTHQUAKE MAR 9, 1949 - 0429 PST

IIIU301 49.001.0 PUBLIC LIBRARY, HOLLISTER, CALIFORNIA COMP UP

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



NORTHERN CALIFORNIA EARTHQUAKE MAR 9, 1949 - 0429 PST

IIIIU301 49.001.0 PUBLIC LIBRARY, HOLLISTER, CALIFORNIA COMP UP

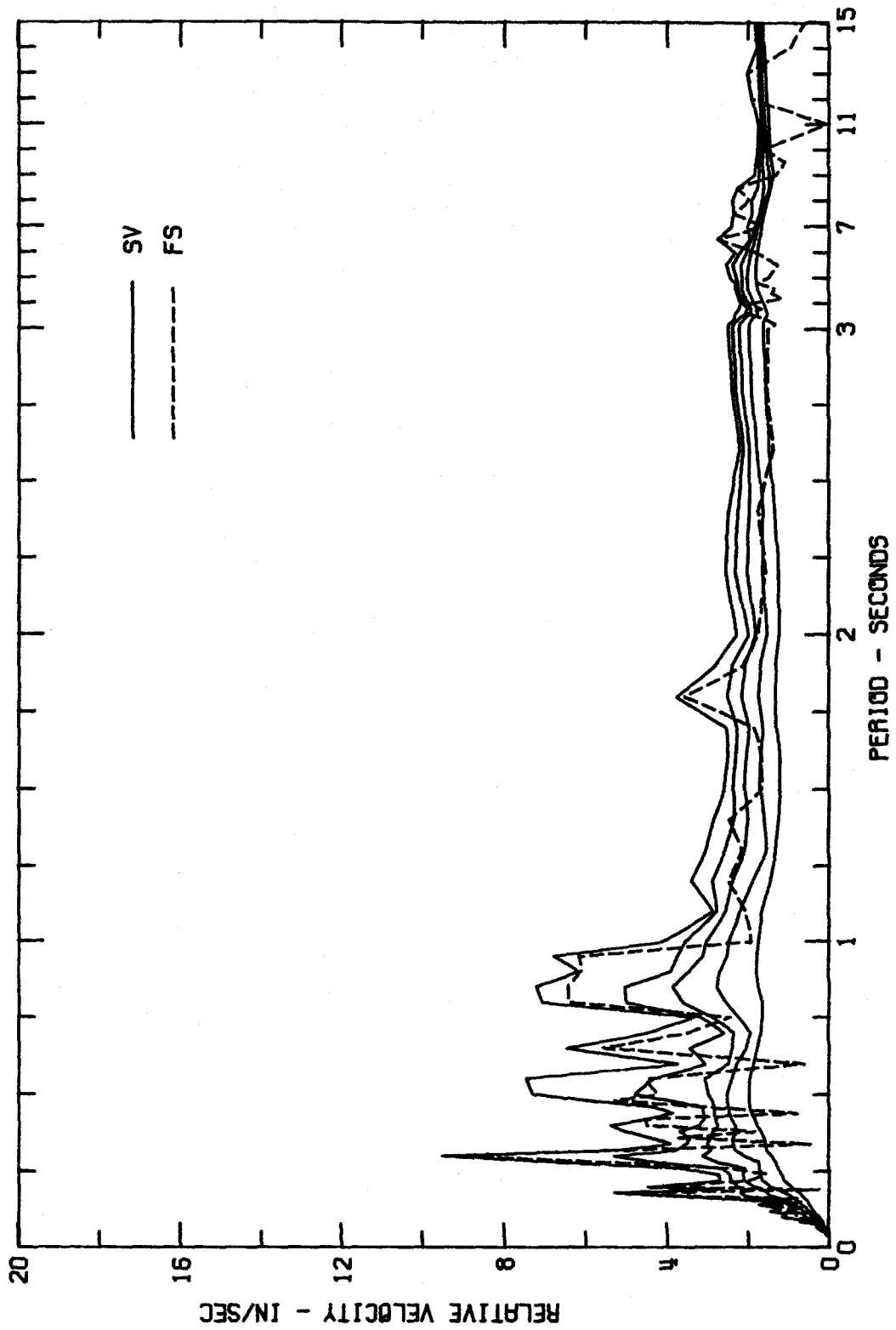
THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	DAMPING = 0 PER CENT	SA	SV	SA	PSV	DAMPING = 5 PER CENT	SV	SA	PSV	DAMPING = 10 PER CENT	SV	SA	PSV	DAMPING = 20 PER CENT
0.040	101-3	159-5	133-3	101-3	249-3	111-5	125-3	709-4	712-4	175-3	111-5	979-4	714-4	175-3	111-5	744-4	717-4	175-3	
0.042	118-3	187-5	152-3	108-3	281-3	123-5	132-3	716-4	718-4	185-3	123-5	104-3	719-4	185-3	123-5	802-4	719-4	184-3	
0.044	125-3	215-5	161-3	113-3	307-3	138-5	135-3	730-4	726-4	196-3	136-5	108-3	723-4	195-3	135-5	845-4	722-4	194-3	
0.046	125-3	246-5	183-3	113-3	337-3	151-5	145-3	733-4	729-4	206-3	150-5	114-3	727-4	205-3	149-5	876-4	725-4	203-3	
0.048	138-3	271-5	183-3	120-3	354-3	162-5	153-3	726-4	729-4	215-3	164-5	121-3	729-4	214-3	162-5	942-4	728-4	213-3	
0.050	127-3	267-5	186-3	109-3	335-3	178-5	157-3	734-4	730-4	224-3	178-5	124-3	732-4	224-3	177-5	964-4	730-4	223-3	
0.055	207-3	395-5	252-3	133-3	451-3	228-5	176-3	776-4	752-4	254-3	220-5	142-3	746-4	251-3	216-5	112-3	738-4	247-3	
0.060	382-3	499-5	395-3	141-3	522-3	288-5	202-3	820-4	772-4	285-3	272-5	181-3	754-4	277-3	259-5	124-3	743-4	271-3	
0.065	253-3	545-5	326-3	131-3	527-3	327-5	239-3	788-4	741-4	295-3	306-5	206-3	743-4	297-3	305-5	139-3	746-4	295-3	
0.070	327-3	670-5	478-3	139-3	601-3	380-5	278-3	796-4	738-4	316-3	352-5	241-3	746-4	320-3	355-5	149-3	750-4	318-3	
0.075	110-3	483-5	349-3	878-4	404-3	441-5	318-3	804-4	772-4	355-3	416-5	226-3	760-4	349-3	411-5	161-3	758-4	344-3	
0.080	211-3	803-5	469-3	128-3	631-3	547-5	351-3	875-4	767-4	375-3	477-5	309-3	767-4	375-3	474-5	183-3	769-4	372-3	
0.085	121-2	201-4	125-2	284-3	148-2	698-5	416-3	989-4	818-4	428-3	579-5	347-3	796-4	415-3	545-5	206-3	782-4	403-3	
0.090	356-3	944-5	563-3	119-3	659-3	834-5	498-3	105-3	892-4	489-3	657-5	322-3	837-4	459-3	621-5	234-3	795-4	433-3	
0.095	149-3	150-4	874-3	170-3	994-3	103-4	576-3	116-3	993-4	578-3	874-5	489-3	856-4	499-3	698-5	260-3	803-4	462-3	
0.100	902-3	217-4	121-2	222-3	136-2	150-4	857-3	164-3	117-3	714-3	127-4	437-3	869-4	512-3	773-5	299-3	809-4	486-3	
0.110	248-2	529-4	266-2	447-3	302-2	259-4	135-2	220-3	147-3	988-3	124-2	173-4	855-3	105-3	928-5	383-3	794-4	530-3	
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0.150	270-2	811-4	408-2	369-3	340-2	466-4	182-2	213-3	148-3	136-2	242-4	773-3	112-3	101-2	177-4	531-3	831-4	741-3	
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0.170	114-2	643-4	220-2	227-3	237-2	351-4	123-2	124-3	111-3	116-2	273-4	760-3	974-4	101-2	251-4	656-3	913-4	930-3	
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THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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RELATIVE VELOCITY RESPONSE SPECTRUM
KERN COUNTY EQ. 1ST AFTERSHOCK JUL 23-31.52 - 0000 PST
1111U302 52.007.0 FIRE HOUSE, TEHACHAPI, CALIFORNIA COMP N10E
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

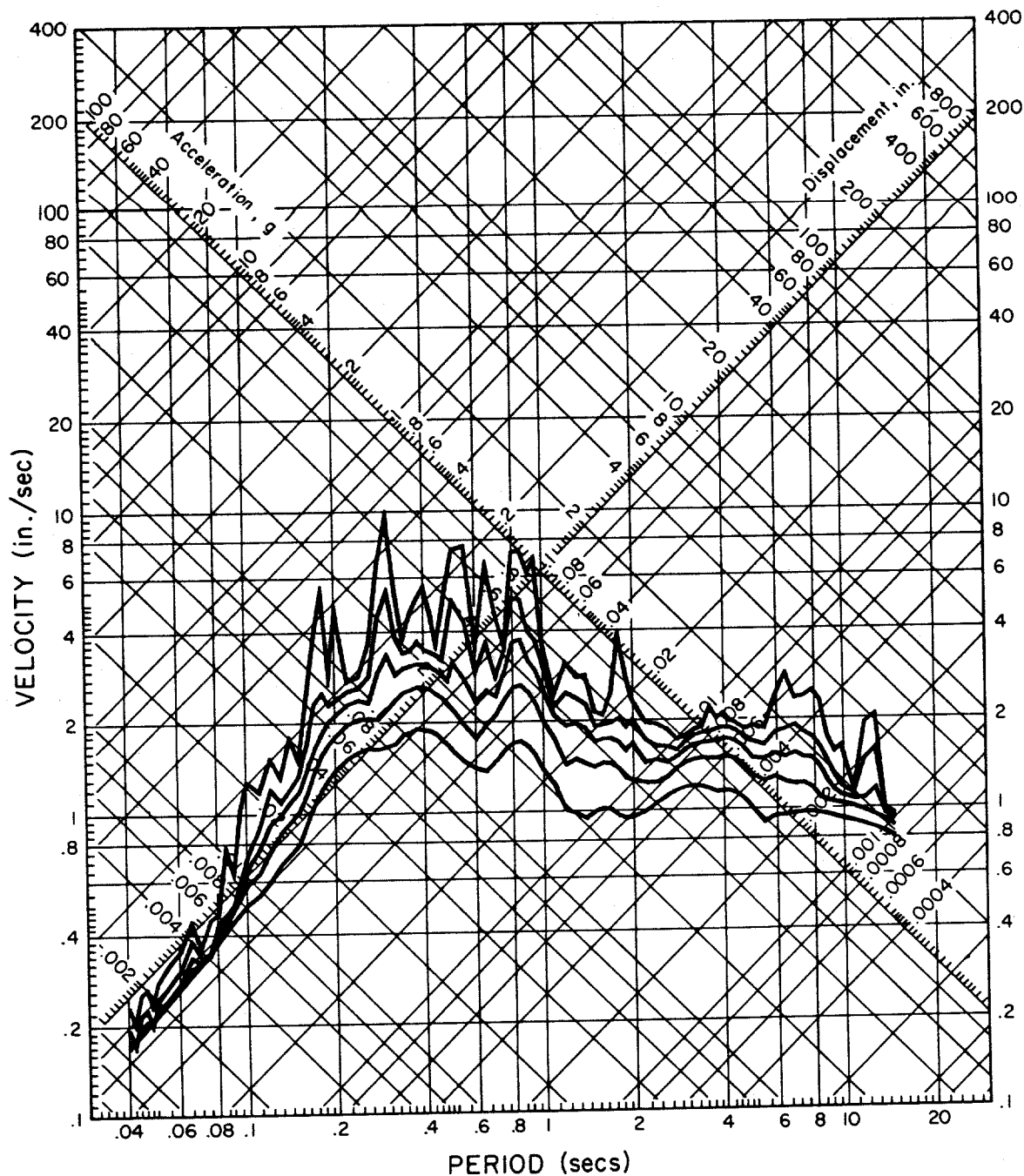


RESPONSE SPECTRUM

KERN COUNTY EQ. 1ST AFTERSHOCK JUL 23-31.52 - 0000 PST

IIU302 52.007.0 FIRE HOUSE, TEHACHAPI, CALIFORNIA COMP N10E

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



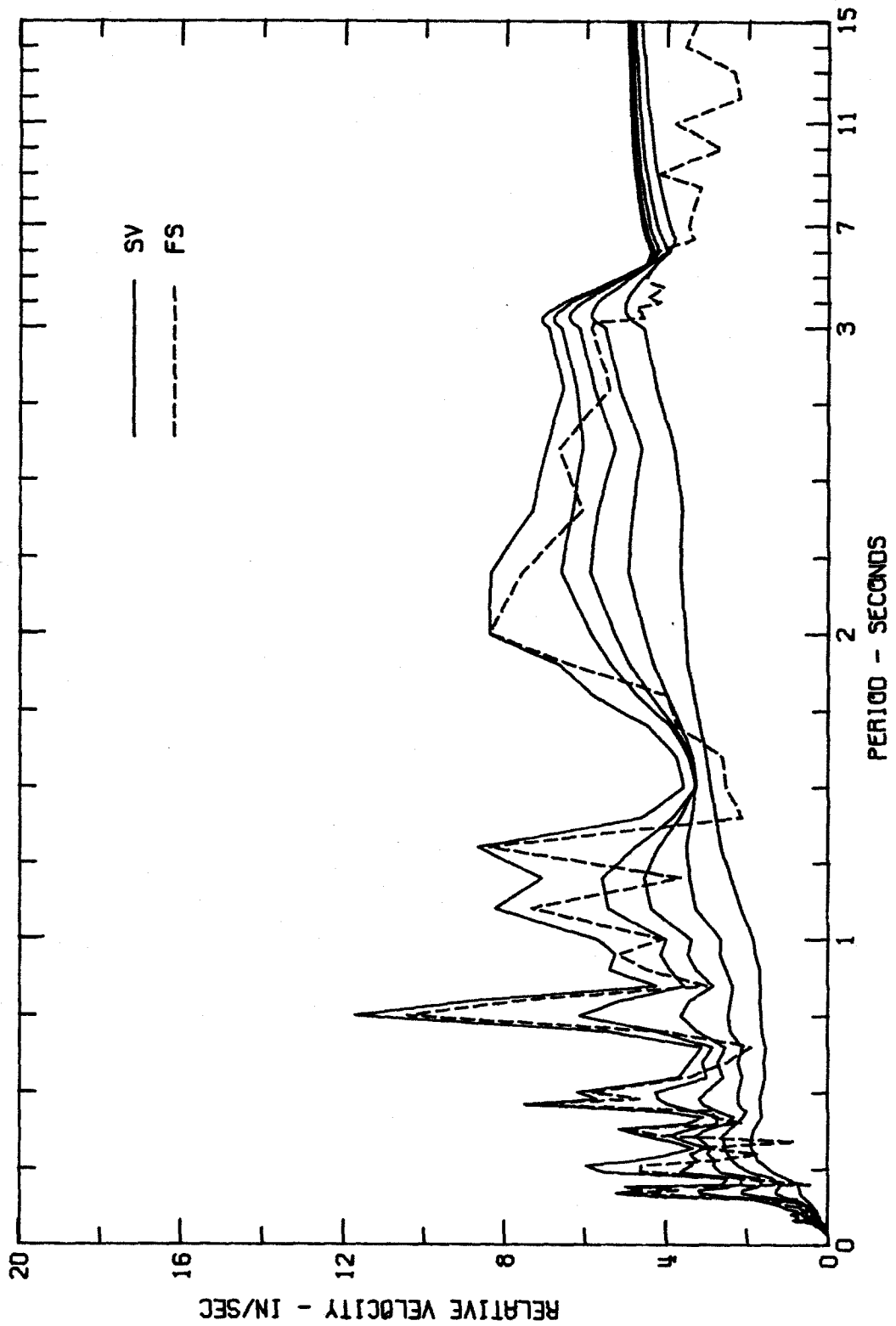
KERN COUNTY EQ. 1ST AFTERSHOCK JUL 23-31.52 - 0000 PST

IIIIU302 52.007.0 FIRE HOUSE, TEHACHAPI, CALIFORNIA COMP N10E

THE UNITS USED ARE SEC FDR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV				
0.040	638-4	143-5	872-4	918-4	225-3	120-5	667-4	772-4	189-3	110-5	551-4	709-4	173-3	107-5	512-4	691-4	169-3	105-5	455-4	679-4	166-3																												
0.042	419-4	131-5	903-4	765-4	197-3	111-5	686-4	647-4	167-3	117-5	597-4	680-4	175-3	119-5	530-4	692-4	178-3	117-5	473-4	684-4	175-3																												
0.044	803-4	174-5	998-4	923-4	249-3	148-5	745-4	783-4	211-3	136-5	636-4	721-4	195-3	131-5	545-4	699-4	188-3	129-5	489-4	687-4	184-3																												
0.046	108-3	189-5	120-3	914-4	258-3	160-5	799-4	776-4	219-3	148-5	653-4	717-4	202-3	144-5	576-4	700-4	197-3	142-5	504-4	691-4	194-3																												
0.048	784-4	175-5	105-3	777-4	229-3	149-5	838-4	664-4	195-3	152-5	710-4	678-4	200-3	157-5	607-4	699-4	206-3	155-5	525-4	694-4	203-3																												
0.050	660-4	216-5	124-3	887-4	272-3	187-5	916-4	767-4	235-3	175-5	730-4	719-4	220-3	172-5	632-4	707-4	217-3	169-5	561-4	697-4	212-3																												
0.055	209-3	276-5	222-3	933-4	315-3	236-5	130-3	800-4	270-3	214-5	105-3	725-4	244-3	209-5	790-4	712-4	239-3	207-5	604-4	707-4	237-3																												
0.060	125-3	334-5	209-3	949-4	350-3	290-5	160-3	824-4	303-3	263-5	132-3	747-4	275-3	255-5	104-3	728-4	267-3	250-5	784-4	718-4	262-3																												
0.065	251-3	446-5	309-3	108-3	431-3	386-5	181-3	936-4	373-3	341-5	148-3	826-4	329-3	313-5	120-3	758-4	302-3	298-5	946-4	728-4	288-3																												
0.070	227-3	395-5	234-3	826-4	355-3	366-5	168-3	768-4	328-3	351-5	155-3	734-4	315-3	352-5	132-3	740-4	316-3	349-5	107-3	738-4	313-3																												
0.075	128-3	525-5	328-3	955-4	440-3	409-5	185-3	743-4	343-3	398-5	154-3	725-4	334-3	409-5	144-3	744-4	342-3	406-5	122-3	750-4	340-3																												
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0.085	672-3	102-4	739-3	144-3	754-3	623-5	324-3	882-4	460-3	606-5	236-3	860-4	448-3	581-5	196-3	829-4	429-3	548-5	156-3	787-4	405-3																												
0.090	421-3	892-5	492-3	112-3	623-3	707-5	336-3	893-4	493-3	703-5	274-3	891-4	491-3	678-5	224-3	861-4	473-3	626-5	177-3	802-4	437-3																												
0.095	543-3	156-4	954-3	177-3	103-2	894-5	485-3	101-3	591-3	849-5	351-3	962-4	561-3	792-5	271-3	900-4	524-3	704-5	205-3	817-4	465-3																												
0.100	808-3	199-4	116-2	204-3	125-2	112-4	595-3	114-3	708-3	102-4	436-3	104-3	646-3	912-5	302-3	936-4	573-3	786-5	238-3	820-4	494-3																												
0.110	860-3	203-4	105-2	171-3	116-2	154-4	627-3	130-3	882-3	131-4	478-3	111-3	751-3	109-4	383-3	927-4	626-3	929-5	301-3	807-4	531-3																												
0.120	139-2	284-4	147-2	202-3	149-2	226-4	908-3	161-3	118-2	173-4	636-3	125-3	908-3	142-4	480-3	101-3	744-3	112-4	374-3	839-4	589-3																												
0.130	616-3	266-4	171-2	161-3	128-2	221-4	877-3	133-3	101-2	201-4	725-3	121-3	975-3	175-4	566-3	106-3	846-3	138-4	432-3	872-4	669-3																												
0.140	156-2	388-4	124-2	202-3	174-2	265-4	100-2	139-3	119-2	239-4	859-3	126-3	107-2	205-4	671-3	110-3	922-3	160-4	490-3	882-4	721-3																												
0.150	696-3	349-4	133-2	158-3	146-2	313-4	114-2	142-3	131-2	277-4	979-3	126-3	116-2	238-4	771-3	108-3	998-3	185-4	536-3	881-4	776-3																												
0.160	711-3	617-4	224-2	246-3	242-2	423-4	154-2	168-3	166-2	350-4	113-2	141-3	137-2	292-4	867-3	116-3	114-2	234-4	586-3	962-4	919-3																												
0.170	384-2	105-3	390-2	375-3	391-2	620-4	209-2	219-3	229-2	436-4	147-2	155-3	161-2	367-4	961-3	130-3	135-2	286-4	664-3	105-3	105-2																												
0.180	509-2	154-3	532-2	486-3	537-2	706-4	220-2	223-3	246-2	521-4	154-2	166-3	182-2	440-4	110-2	140-3	153-2	337-4	757-3	111-3																													
0.190	259-3	856-4	273-2	242-3	283-2	680-4	199-2	193-3	225-2	603-4	167-2	172-3	199-2	506-4	130-2	146-3	167-2	389-4	880-3	115-3	128-2																												
0.200	423-2	148-3	451-2	379-3	466-2	743-4	226-2	191-3	233-2	662-4	185-2	169-3	208-2	562-4	144-2	146-3	176-2	434-4	957-3	117-3	136-2																												
0.220	199-2	944-4	271-2	199-3	269-2	877-4	245-2	186-3	250-2	792-4	211-2	169-3	226-2	678-4	167-2	146-3	193-2	520-4	112-2	115-3	148-2																												
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0.260	248-2	150-3	367-2	227-3	362-2	116-3	265-2	176-3	280-2	949-4	208-2	146-3	229-2	837-4	173-2	130-3	202-2	666-4	126-2	106-3	161-2																												
0.280	560-2	295-3	653-2	385-3	663-2	198-3	422-2	258-3	444-2	129-3	276-2	171-3	291-2	897-4	172-2	119-3	201-2	711-4	130-2	100-3	159-2																												
0.300	932-2	457-3	953-2	520-3	959-2	258-3	532-2	293-3	541-2	157-3	315-2	179-3	330-2	103-3	209-2	120-3	216-2	777-4	141-2	953-4	162-2																												
0.320	496-2	270-3	532-2	270-3	531-2	192-3	376-2	191-3	377-2	144-3	293-2	145-3	283-2	118-3	232-2	121-3	233-2	847-4	155-2	900-4	166-2																												
0.340	456-3	200-3	391-2	177-3	370-2	181-3	352-2	160-3	335-2	161-3	303-2	142-3	297-2	133-3	239-2	118-3	247-2	964-4	157-2	911-4	178-2																												
0.360	374-2	262-3	441-2	207-3	458-2	195-3	344-2	153-3	340-2	173-3	295-2	137-3	303-2	144-3	238-2	117-3	252-2	104-3	160-2	881-4	181-2																												
0.380	183-2	310-3	507-2	213-3	512-2	221-3	370-2	156-3	365-2	186-3	288-2	133-3	308-2	156-3	229-2																																		

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KERN COUNTY EQ. 1ST AFTERSHOCK JUL 23-31.52 - 0000 PST
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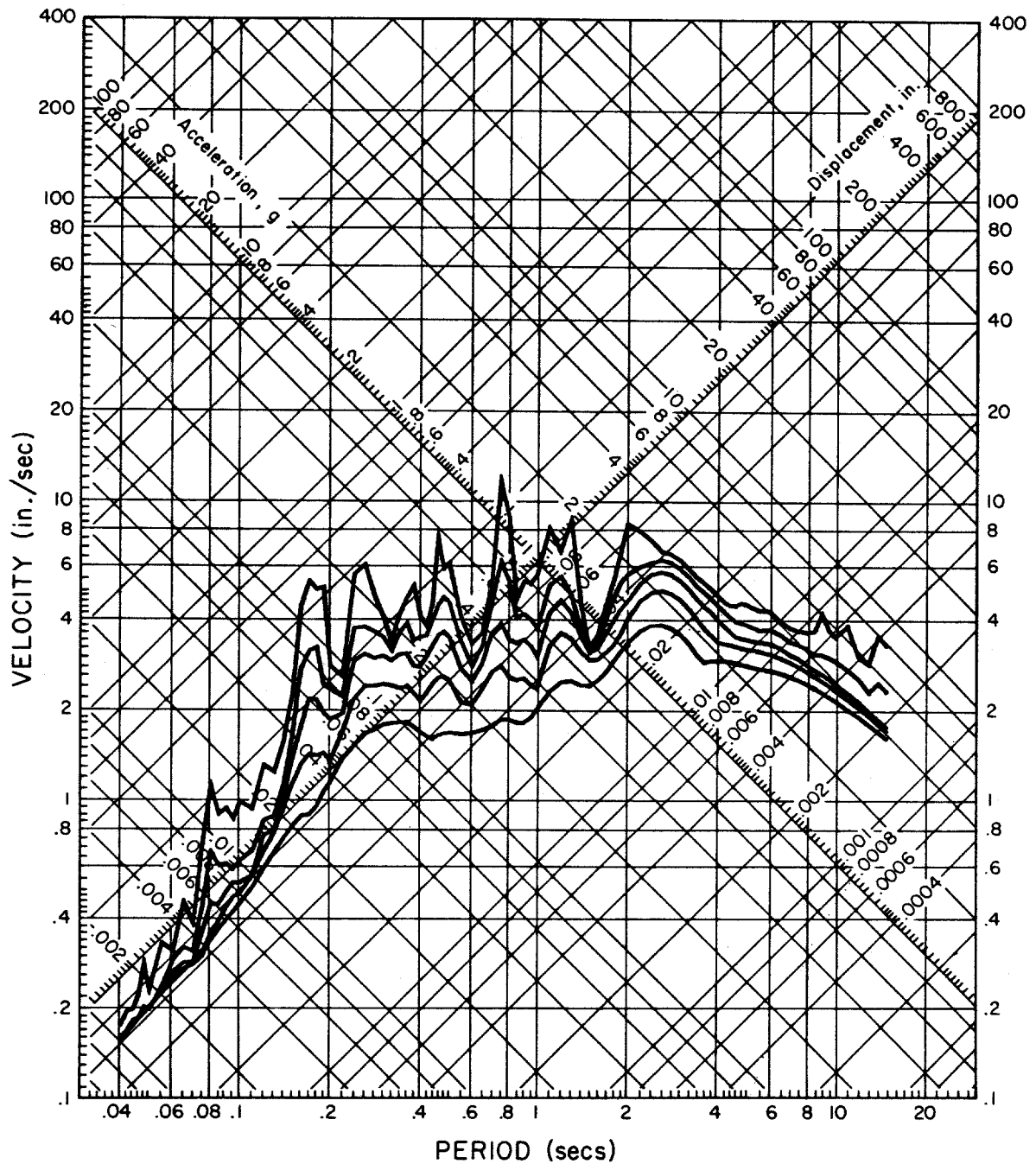


RESPONSE SPECTRUM

KERN COUNTY EQ. 1ST AFTERSHOCK JUL 23-31.52 - 0000 PST

IIIU302 52.007.0 FIRE HOUSE, TEHACHAPI, CALIFORNIA COMP S80E

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



KERN COUNTY EQ. 1ST AFTERSHOCK JUL 23-31,52 - 0000 PST

IIU302 52.007.0 FIRE HOUSE, TEHACHAPI, CALIFORNIA COMP S80E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.040	355-4	109-5	613-4	702-4	172-3	997-6	389-4	637-4	156-3	996-6	351-4	636-4	156-3	992-6	323-4	634-4	155-3
0.042	379-4	128-5	728-4	746-4	192-3	110-5	406-4	642-4	165-3	110-5	380-4	642-4	165-3	110-5	356-4	638-4	164-3
0.044	325-4	136-5	803-4	720-4	194-3	125-5	439-4	661-4	178-3	122-5	418-4	649-4	175-3	121-5	394-4	642-4	173-3
0.046	608-4	160-5	871-4	776-4	219-3	133-5	535-4	646-4	182-3	134-5	478-4	649-4	183-3	133-5	441-4	645-4	182-3
0.048	927-4	213-5	116-3	948-4	279-3	152-5	522-4	676-4	199-3	146-5	503-4	652-4	192-3	145-5	486-4	647-4	190-3
0.050	503-4	178-5	103-3	731-4	224-3	155-5	575-4	635-4	195-3	157-5	532-4	645-4	198-3	158-5	537-4	649-4	199-3
0.055	116-3	286-5	180-3	969-4	327-3	204-5	956-4	691-4	233-3	197-5	777-4	666-4	225-3	195-5	741-4	663-4	223-3
0.060	134-3	293-5	160-3	832-4	306-3	273-5	136-3	778-4	286-3	249-5	124-3	708-4	261-3	238-5	103-3	678-4	250-3
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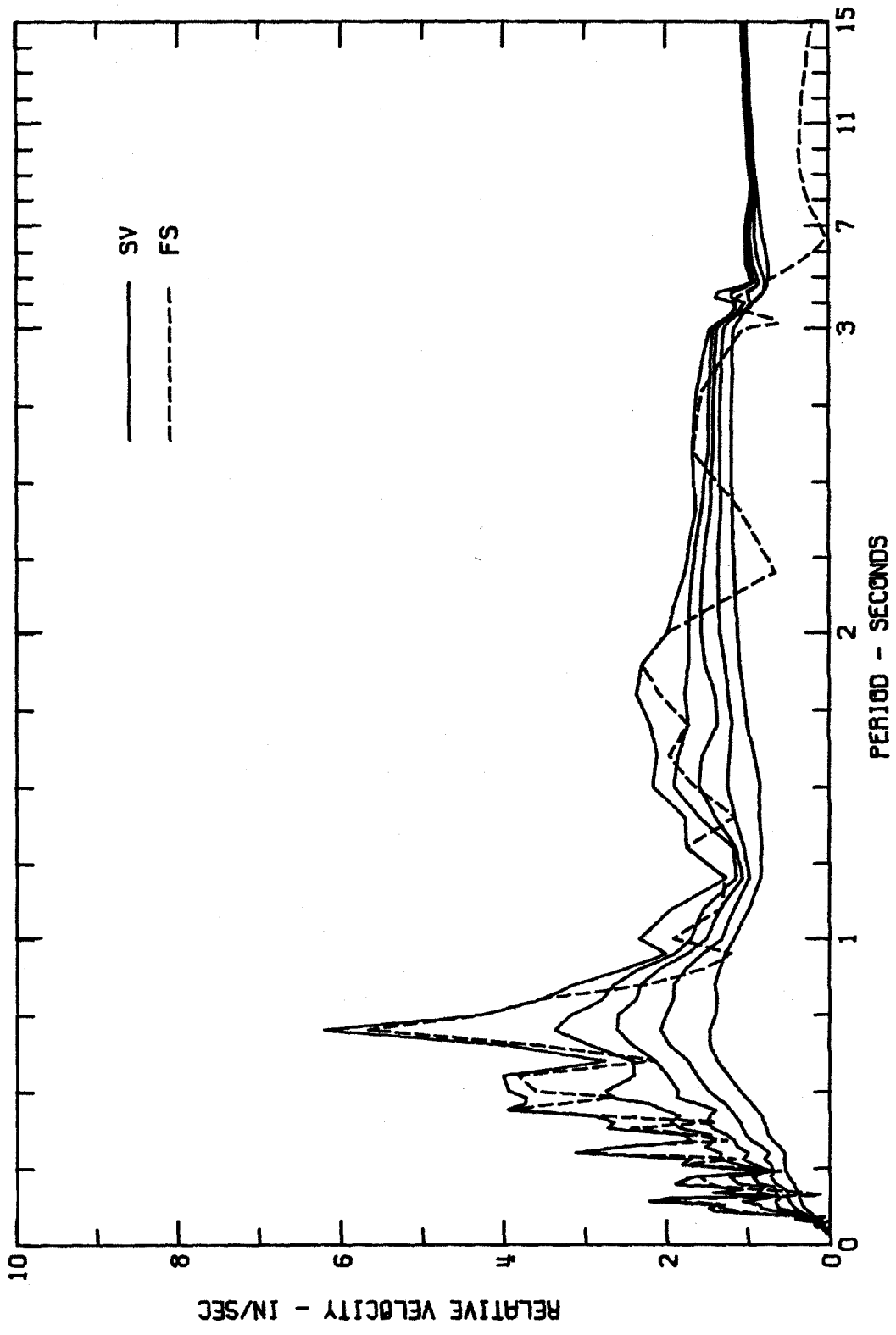
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KERN COUNTY EQ. 1ST AFTERSHOCK JUL 23-31.52 - 0000 PST
111U302 52.007.0 FIRE HOUSE, TEHACHAPI, CALIFORNIA COMP UP
DAMPING VALUES ARE 0. 2. 5. 10 AND 20 PERCENT OF CRITICAL

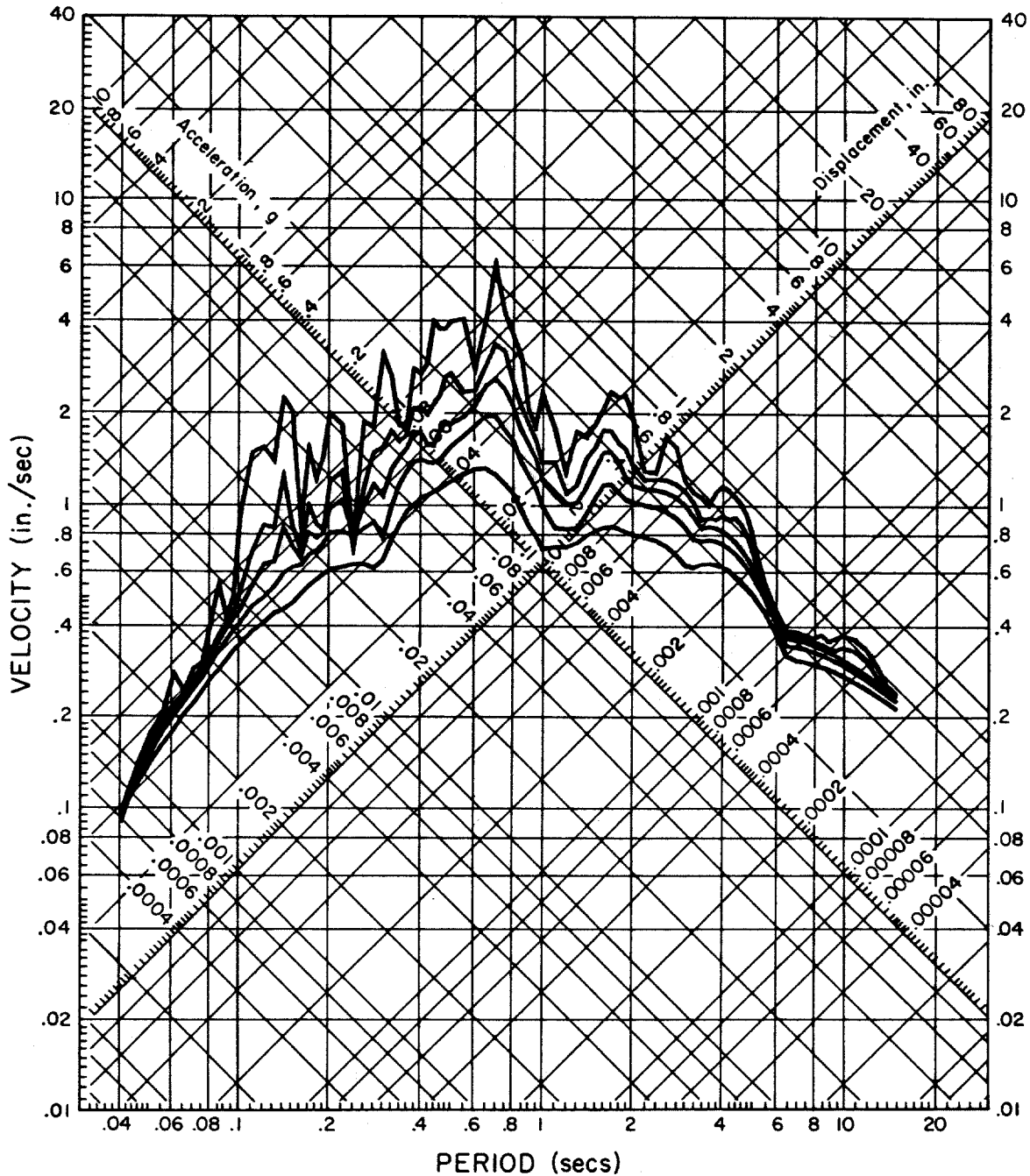


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KERN COUNTY EQ. 1ST AFTERSHOCK JUL 23-31.52 - 0000 PST

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KERN COUNTY EQ. 1ST AFTERSHOCK JUL 23-31,52 - 0000 PST
 I11U302 52.007.0 FIRE HOUSE, TEHACHAPI, CALIFORNIA COMP UP

-124-

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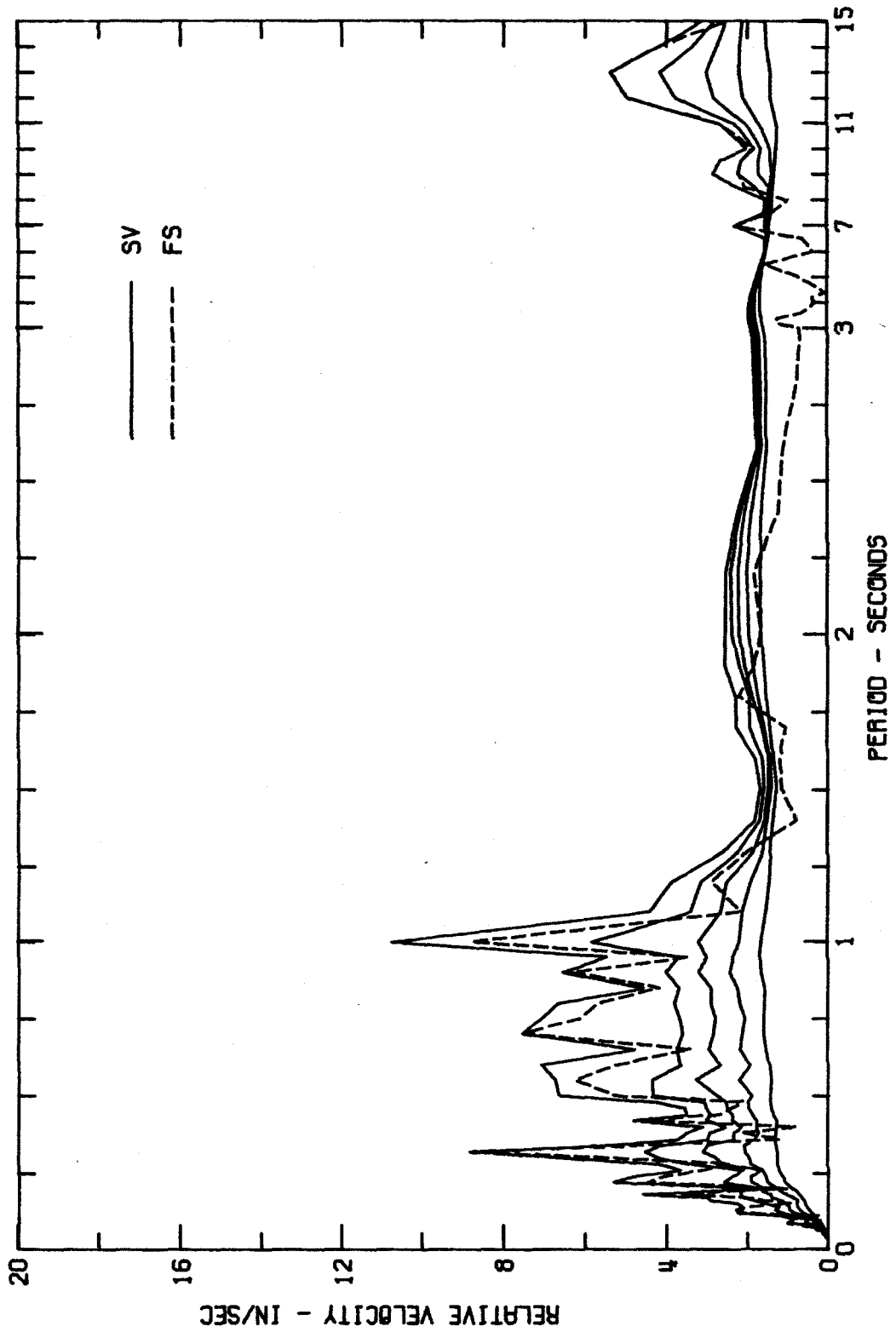
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111U302 52.007.0 FIRE HOUSE, TEHACHAPI, CALIFORNIA COMP UP

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	DAMPING = 0 PER CENT	DAMPING = 2 PER CENT	DAMPING = 5 PER CENT	DAMPING = 10 PER CENT	DAMPING = 20 PER CENT					
0.75	425-2	508-3	426-2	923-4	425-2	381-3	316-2	696-4	319-2	285-3	260-2	523-4	239-2	210-3	176-2	140-3	139-2	288-4	117-2
0.80	357-2	455-3	357-2	728-4	357-2	320-3	280-2	511-4	251-2	266-3	238-2	430-4	209-2	206-3	161-2	138-3	138-2	251-4	108-2
0.85	220-2	413-3	313-2	585-4	306-2	281-3	264-2	399-4	208-2	237-3	231-2	338-4	175-2	186-3	137-2	129-3	140-2	210-4	959-3
0.90	154-2	292-3	252-2	369-4	204-2	262-3	233-2	332-4	183-2	225-3	208-2	286-4	157-2	178-3	124-2	122-3	134-2	173-4	852-3
0.95	120-2	273-3	200-2	310-4	181-2	246-3	189-2	279-4	163-2	213-3	174-2	243-4	141-2	171-3	113-2	119-3	127-2	154-4	792-3
1.00	192-2	371-3	234-2	380-4	233-2	218-3	170-2	224-4	137-2	192-3	151-2	198-4	120-2	157-3	991-3	114-3	117-2	134-4	717-3
1.10	131-2	312-3	191-2	264-4	178-2	242-3	153-2	205-4	138-2	188-3	132-2	160-4	107-2	147-3	841-3	127-3	977-3	121-4	728-3
1.20	127-2	243-3	127-2	172-4	127-2	208-3	114-2	148-4	109-2	192-3	106-2	137-4	100-2	160-3	839-3	139-3	843-3	112-4	731-3
1.30	175-2	362-3	175-2	219-4	175-2	241-3	117-2	146-4	116-2	211-3	114-2	128-4	102-2	174-3	842-3	156-3	820-3	108-4	754-3
1.40	115-2	370-3	177-2	193-4	166-2	317-3	160-2	165-4	142-2	257-3	140-2	135-4	115-2	209-3	116-2	112-4	938-3	105-4	794-3
1.50	165-2	439-3	216-2	199-4	184-2	370-3	190-2	168-4	155-2	316-3	159-2	144-4	132-2	253-3	124-2	118-4	106-2	197-3	845-3
1.60	197-2	528-3	211-2	210-4	207-2	448-3	185-2	179-4	176-2	379-3	156-2	152-4	149-2	297-3	122-2	122-4	116-2	197-3	849-3
1.70	172-2	635-3	219-2	224-4	234-2	473-3	172-2	167-4	174-2	403-3	136-2	144-4	149-2	317-3	118-2	116-4	117-2	229-3	849-3
1.80	208-2	645-3	237-2	203-4	225-2	459-3	177-2	145-4	160-2	397-3	140-2	126-4	138-2	316-3	124-2	104-4	110-2	240-3	819-3
1.90	229-2	692-3	228-2	196-4	228-2	463-3	171-2	131-4	153-2	373-3	152-2	106-4	123-2	316-3	127-2	915-5	104-2	247-3	809-3
2.00	198-2	630-3	198-2	161-4	198-2	432-3	172-2	110-4	135-2	370-3	157-2	951-5	116-2	326-3	134-2	848-5	102-2	255-3	803-3
2.20	661-3	451-3	176-2	954-5	128-2	425-3	167-2	899-5	121-2	396-3	155-2	841-5	113-2	350-3	136-2	753-5	100-2	274-3	783-3
2.40	107-2	489-3	163-2	869-5	128-2	464-3	156-2	826-5	121-2	429-3	145-2	768-5	112-2	377-3	132-2	688-5	987-3	293-3	768-3
2.60	167-2	691-3	167-2	104-4	167-2	502-3	147-2	760-5	121-2	457-3	141-2	695-5	110-2	395-3	133-2	621-5	955-3	304-3	735-3
2.80	155-2	692-3	161-2	903-5	155-2	524-3	146-2	684-5	117-2	478-3	136-2	547-5	106-2	405-3	132-2	543-5	910-3	307-3	689-3
3.00	105-2	573-3	145-2	651-5	120-2	532-3	141-2	605-5	111-2	478-3	136-2	547-5	100-2	404-3	128-2	474-5	848-3	303-3	635-3
3.20	628-3	563-3	136-2	562-5	110-2	521-3	133-2	521-5	102-2	467-3	129-2	470-5	918-3	394-3	123-2	406-5	774-3	319-3	627-3
3.40	698-3	576-3	125-2	509-5	106-2	486-3	123-2	432-5	898-3	456-3	120-2	411-5	843-3	413-3	116-2	387-5	764-3	346-3	640-3
3.60	950-3	573-3	119-2	452-5	100-2	520-3	113-2	412-5	908-3	488-3	110-2	394-5	852-3	441-3	108-2	373-5	771-3	369-3	644-3
3.80	111-2	671-3	114-2	475-5	111-2	544-3	108-2	387-5	900-3	510-3	100-2	371-5	844-3	462-3	100-2	354-5	765-3	386-3	639-3
4.00	115-2	736-3	116-2	471-5	115-2	590-3	102-2	377-5	927-3	525-3	957-3	345-5	825-3	476-3	917-3	333-5	748-3	399-3	628-3
4.20	111-2	749-3	138-2	434-5	112-2	600-3	118-2	348-5	898-3	532-3	970-3	318-5	796-3	484-3	839-3	310-5	724-3	408-3	610-3
4.40	103-2	749-3	135-2	396-5	107-2	640-3	118-2	338-5	913-3	532-3	988-3	291-5	760-3	487-3	794-3	287-5	695-3	413-3	590-3
4.60	917-3	742-3	112-2	358-5	101-2	638-3	102-2	308-5	871-3	528-3	888-3	265-5	721-3	484-3	783-3	265-5	662-3	414-3	565-3
4.80	795-3	715-3	934-3	317-5	936-3	617-3	896-3	274-5	808-3	519-3	843-3	240-5	679-3	478-3	770-3	244-5	626-3	412-3	539-3
5.00	674-3	647-3	966-3	264-5	813-3	569-3	928-3	233-5	715-3	506-3	876-3	216-5	636-3	469-3	798-3	223-5	590-3	408-3	513-3
5.50	408-3	495-3	101-2	167-5	565-3	482-3	979-3	164-5	551-3	464-3	931-3	165-5	531-3	437-3	857-3	178-5	499-3	388-3	444-3
6.00	198-3	433-3	102-2	123-5	453-3	425-3	999-3	121-5	445-3	414-3	956-3	125-5	433-3	395-3	890-3	142-5	414-3	361-3	378-3
6.50	354-4	399-3	102-2	966-6	385-3	389-3	100-2	962-6	376-3	375-3	963-3	990-6	362-3	354-3	904-3	113-5	342-3	329-3	318-3
7.00	948-4	424-3	101-2	885-6	380-3	414-3	989-3	884-6	371-3	400-3	958-3	916-6	359-3	378-3	907-3	104-5	339-3	341-3	306-3
7.50	192-3	445-3	990-3	809-6	373-3	435-3	972-3	811-6	364-3	421-3	946-3	846-6	352-3	399-3	902-3	979-6	334-3	361-3	302-3
8.00	264-3	463-3	967-3	740-6	363-3	453-3	952-3	744-6	356-3	439-3	930-3	782-6	345-3	417-3	893-3	915-6	327-3	379-3	297-3
8.50	314-3	506-3	950-3	716-6	374-3	468-3	941-3	683-6	346-3	455-3	929-3	724-6	336-3	433-3	911-3	855-6	320-3	395-3	292-3
9.00	347-3	508-3	967-3	642-6	355-3	482-3	958-3	628-6	336-3	468-3	946-3	672-6	327-3	447-3	927-3	801-6	312-3	409-3	286-3
9.50	365-3	551-3	982-3	624-6	364-3	501-3	973-3	579-6	331-3	480-3	961-3	624-6	317-3	459-3	942-3	752-6	303-3	422-3	279-3
10.00	372-3	590-3	995-3	604-6	371-3	537-3	986-3	550-6	337-3	491-3	974-3	581-6	308-3	470-3	955-3	706-6	295-3	433-3	272-3
11.00	362-3	632-3	101-2	534-6	361-3	577-3	100-2	488-6	329-3	508-3	996-3	507-6	290-3	489-3	977-3	628-6	279-3	452-3	258-3
12.00	333-3	634-3	103-2	450-6	332-3	580-3	102-2	412-6	303-3	522-3	101-2	447-6	273-3	504-3	995-3	562-6	263-3	469-3	245-3
13.00	295-3	608-3	104-2	368-6	293-3	558-3	103-2	348-6	269-3	533-3	102-2	398-6	258-3	516-3	101-2	507-6	249-3	482-3	233-3
14.00	253-3	562-3	105-2	293-6	252-3	553-3	105-2	306-6	248-3	543-3	103-2	356-6	243-3	525-3	102-2	460-6	236-3	494-3	221-3
15.00	212-3	567-3	106-2	258-6	237-3	560-3	105-2	272-6	234-3	550-3	104-2	321-6	230-3	534-3	103-2	421-6	223-3	504-3	211-3

RELATIVE VELOCITY RESPONSE SPECTRUM
KERN COUNTY EQ. 2ND AFTERSHOCK JUL 23-31.52 - 0000 PST
111U303 52.008.0 FIRE HOUSE, TEHACHAPI, CALIFORNIA COMP N10E
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

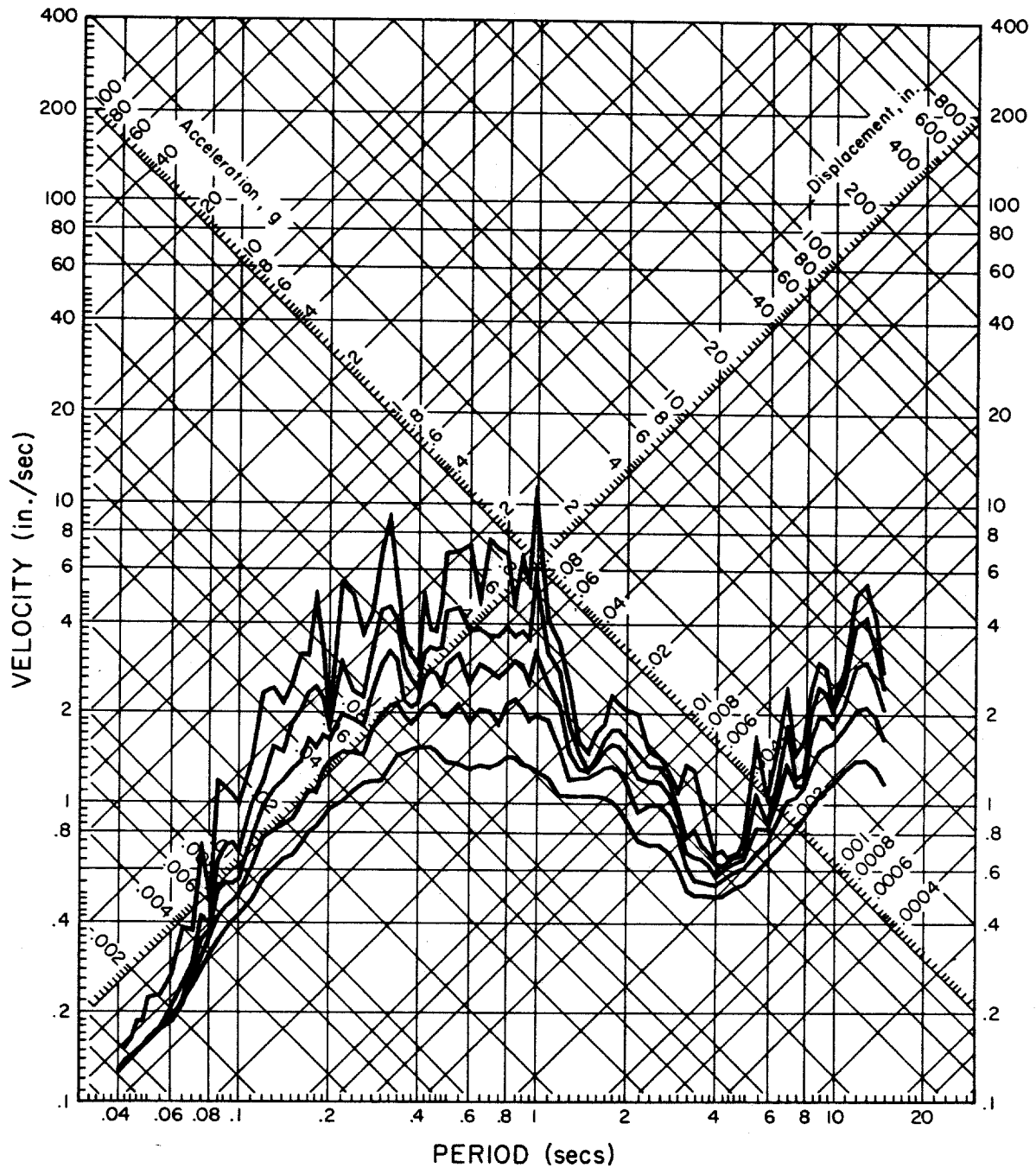


RESPONSE SPECTRUM

KERN COUNTY EQ. 2ND AFTERSHOCK JUL 23-31,52 - 0000 PST

IIIU303 52.008.0 FIRE HOUSE, TEHACHAPI, CALIFORNIA COMP N10E

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



IIIIU303 52.008-0 FIRE HOUSE, TEHACHAPI, CALIFORNIA COMP N10E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.040	580-4	963-6	769-4	615-4	151-3	799-6	364-4	511-4	125-3	806-6	346-4	516-4	126-3	801-6	340-4	513-4	125-3
0.042	596-4	100-5	740-4	580-4	149-3	906-6	368-4	526-4	135-3	893-6	379-4	519-4	133-3	884-6	376-4	514-4	132-3
0.044	276-4	112-5	580-4	593-4	160-3	980-6	449-4	517-4	139-3	979-6	432-4	516-4	139-3	972-6	419-4	514-4	138-3
0.046	351-4	134-5	853-4	651-4	184-3	106-5	507-4	516-4	145-3	106-5	486-4	515-4	145-3	106-5	464-4	513-4	145-3
0.048	387-4	140-5	958-4	622-4	183-3	115-5	557-4	512-4	151-3	116-5	536-4	515-4	151-3	115-5	511-4	512-4	151-3
0.050	773-4	175-5	124-3	717-4	220-3	127-5	652-4	521-4	160-3	125-5	594-4	513-4	157-3	124-5	562-4	512-4	156-3
0.055	884-4	197-5	158-3	668-4	225-3	154-5	795-4	521-4	175-3	151-5	735-4	514-4	173-3	150-5	702-4	511-4	172-3
0.060	141-3	254-5	194-3	722-4	266-3	198-5	127-3	562-4	207-3	176-5	997-4	501-4	184-3	175-5	858-4	497-4	183-3
0.065	187-3	392-5	336-3	948-4	378-3	255-5	142-3	616-4	247-3	225-5	114-3	547-4	217-3	216-5	951-4	528-4	209-3
0.070	172-3	413-5	254-3	863-4	371-3	320-5	170-3	668-4	288-3	308-5	147-3	646-4	277-3	287-5	125-3	598-4	258-3
0.075	644-3	823-5	676-3	149-3	689-3	497-5	245-3	906-4	416-3	414-5	182-3	755-4	347-3	365-5	150-3	674-4	306-3
0.080	142-3	601-5	363-3	961-4	472-3	497-5	306-3	797-4	390-3	478-5	243-3	772-4	376-3	456-5	182-3	729-4	358-3
0.085	358-3	157-4	103-2	222-3	116-2	857-5	490-3	120-3	633-3	682-5	299-3	971-4	504-3	558-5	224-3	797-4	412-3
0.090	352-3	158-4	102-2	200-3	110-2	102-4	584-3	129-3	712-3	726-3	804-5	909-4	532-3	703-5	313-3	796-4	465-3
0.095	184-3	155-4	876-3	179-3	104-2	109-4	539-3	474-3	123-3	674-3	876-5	894-4	550-3	780-5	347-3	808-4	490-3
0.100	833-3	155-4	866-3	158-3	976-3	107-4	521-3	110-3	674-3	876-5	390-3	894-4	550-3	780-5	347-3	808-4	490-3
0.110	254-3	235-4	121-2	199-3	134-2	171-4	843-3	145-3	978-3	131-4	631-3	110-3	749-3	105-4	491-3	907-4	602-3
0.120	213-2	438-4	227-2	311-3	229-2	222-4	112-2	158-3	116-2	182-4	863-3	131-3	956-3	144-4	623-3	104-3	754-3
0.130	224-2	493-4	230-2	298-3	238-2	314-4	135-2	190-3	152-2	226-4	980-3	135-3	109-2	164-4	738-3	103-3	797-3
0.140	196-2	472-4	214-2	246-3	212-2	325-4	123-2	170-3	145-2	262-4	983-3	138-3	117-2	185-4	784-3	997-4	833-3
0.150	976-3	589-4	227-2	267-3	246-2	434-4	160-2	196-3	181-2	304-4	109-2	137-3	127-2	208-4	804-3	963-4	872-3
0.160	159-2	791-4	294-2	295-3	310-2	512-4	180-2	205-3	201-2	345-4	116-2	137-3	135-2	245-4	768-3	988-4	963-3
0.170	212-2	836-4	300-2	316-3	309-2	623-4	215-2	221-3	230-2	437-4	142-2	154-3	161-2	293-4	870-3	104-3	108-2
0.180	364-2	138-3	463-2	436-3	482-2	689-4	219-2	218-3	240-2	431-4	144-2	135-3	150-2	306-4	105-2	990-4	107-2
0.190	260-2	998-4	311-2	282-3	330-2	665-4	220-2	188-3	220-2	501-4	166-2	142-3	165-2	382-4	121-2	109-3	126-2
0.200	102-2	589-4	170-2	150-3	185-2	563-4	166-2	145-3	177-2	511-4	161-2	129-3	160-2	433-4	129-2	109-3	136-2
0.220	450-2	189-3	534-2	399-3	540-2	102-3	263-2	216-3	291-2	681-4	192-2	148-3	194-2	552-4	157-2	995-4	144-2
0.240	411-2	187-3	484-2	333-3	492-2	889-4	241-2	157-3	232-2	717-4	195-2	127-3	187-2	552-4	157-2	995-4	144-2
0.260	310-2	150-3	366-2	228-3	364-2	924-4	211-2	140-3	223-2	739-4	164-2	111-3	178-2	590-4	164-2	894-4	142-2
0.280	244-2	194-3	421-2	254-3	436-2	145-3	340-2	189-3	327-2	104-3	263-2	136-3	234-2	782-4	192-2	105-3	175-2
0.300	542-2	326-3	660-2	371-3	684-2	209-3	423-2	237-3	438-2	136-3	281-2	156-3	286-2	927-4	197-2	105-3	194-2
0.320	878-2	452-3	884-2	452-3	889-2	229-3	455-2	227-3	449-2	162-3	313-2	161-3	318-2	106-3	206-2	107-3	208-2
0.340	467-2	292-3	544-2	258-3	540-2	218-3	412-2	192-3	404-2	160-3	300-2	144-3	296-2	115-3	209-2	102-3	212-2
0.360	120-2	197-3	372-2	155-3	344-2	161-3	299-2	126-3	281-2	123-3	234-2	992-4	215-2	109-3	183-2	886-4	191-2
0.380	219-2	185-3	351-2	131-3	307-2	154-3	295-2	110-3	255-2	124-3	234-2	890-4	205-2	109-3	172-4	784-4	181-2
0.400	823-3	179-3	310-2	114-3	282-2	151-3	254-2	971-4	238-2	135-3	215-2	863-4	213-2	122-3	179-2	791-4	192-2
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0.440	270-2	264-3	351-2	139-3	377-2	231-3	292-2	123-3	329-2	191-3	239-2	102-3	274-2	149-3	189-2	802-4	213-2
0.460	240-2	273-3	356-2	132-3	373-2	237-3	304-2	114-3	324-2	196-3	253-2	947-4	267-2	151-3	198-2	753-4	206-2
0.480	212-2	353-3	429-2	157-3	462-2	249-3	308-2	111-3	327-2	186-3	255-2	826-4	243-2	146-3	200-2	661-4	191-2
0.500	529-2	542-3	667-2	221-3	681-2	347-3	436-2	141-3	436-2	229-3	278-2	936-4	288-2	152-3	190-2	636-4	191-2
0.550	628-2	605-3	675-2	204-3	691-2	392-3	436-2	132-3	447-2	274-3	331-2	930-4	313-2	185-3	222-2	639-4	211-2
0.600	524-2	690-3	708-2	196-3	723-2	358-3	367-2	102-3	375-2	237-3	269-2	677-4	248-2	175-3	195-2	507-4	183-2
0.650	341-2	490-3	477-2	118-3	473-2	392-3	374-2	953-4	379-2	298-3	296-2	729-4	289-2	209-3	219-2	516-4	202-2
0.700	755-2	841-3	755-2	175-3	755-2	403-3	361-2	844-4	361-2	306-3	284-2	643-4	275-2	223-3	212-2	478-4	200-2

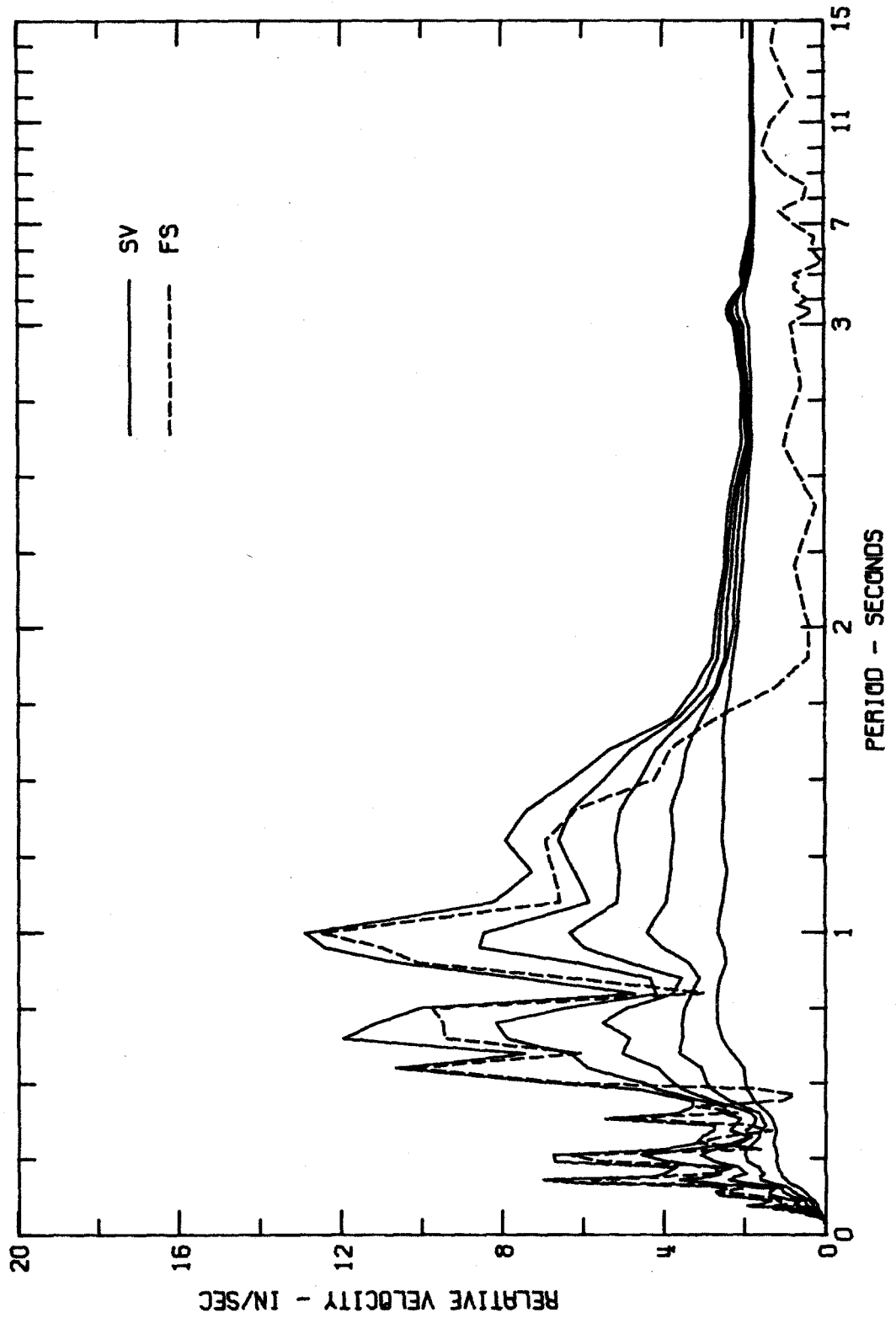
IIIU303 52.008.0 FIRE HOUSE, TEHACHAPI, CALIFORNIA COMP NIOE

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.75	610-2	839-3	704-2	152-3	703-2	428-3	368-2	781-4	359-2	310-3	280-2	568-4	260-2	216-3	207-2	402-4	181-2
0.80	570-2	864-3	667-2	138-3	679-2	489-3	382-2	782-4	384-2	352-3	293-2	566-4	276-2	269-3	220-2	440-4	211-2
0.85	419-2	620-3	457-2	877-4	458-2	486-3	370-2	689-4	359-2	399-3	293-2	568-4	295-2	297-3	226-2	432-4	219-2
0.90	636-2	946-3	659-2	119-3	661-2	535-3	404-2	675-4	374-2	410-3	324-2	521-4	286-2	293-3	246-2	382-4	204-2
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RELATIVE VELOCITY RESPONSE SPECTRUM
KERN COUNTY EQ. 2ND AFTERSHOCK JUL 23-31.52 - 0000 PST
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DAMPING VALUES ARE 0. 2. 5. 10 AND 20 PERCENT OF CRITICAL

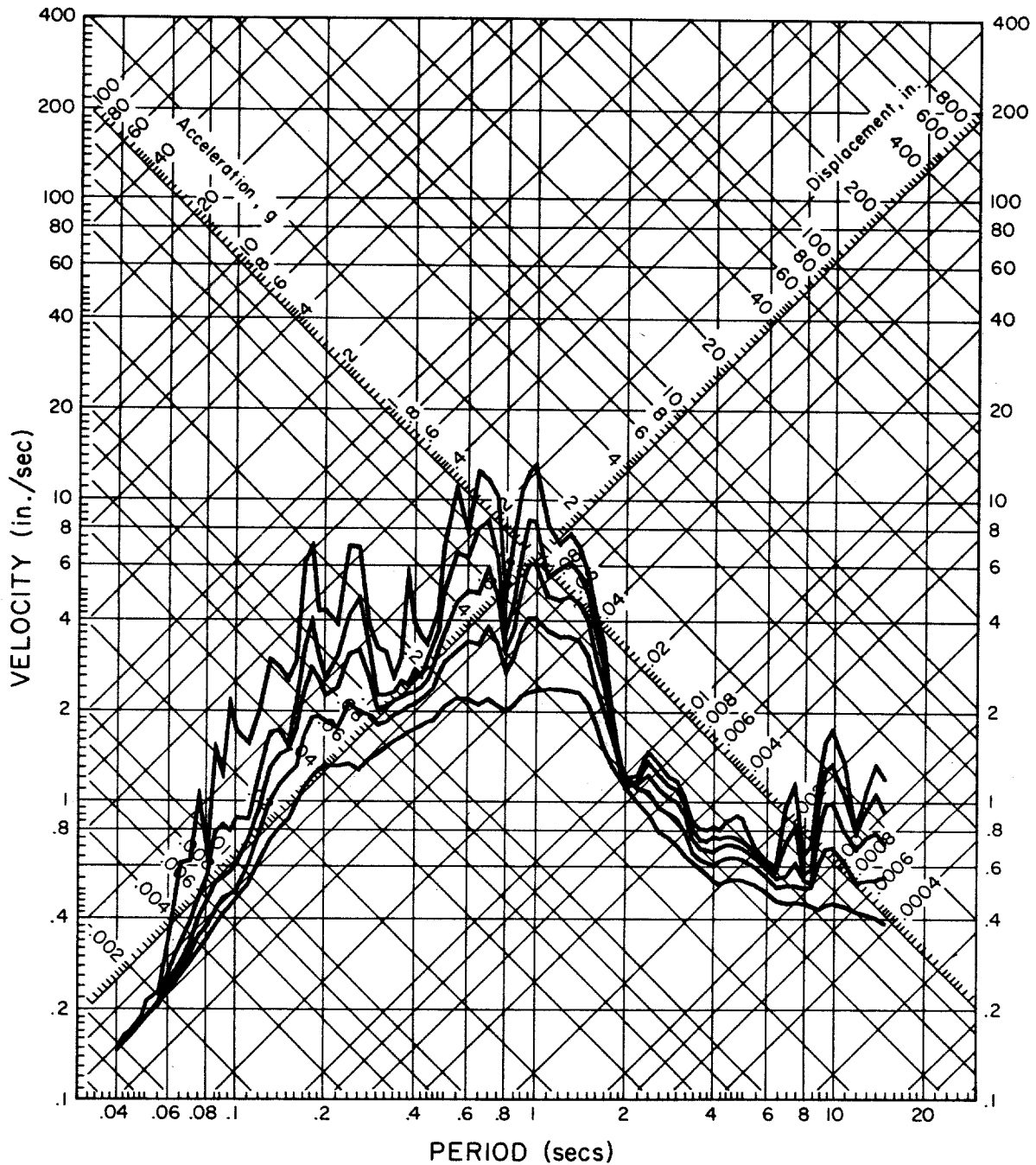


RESPONSE SPECTRUM

KERN COUNTY EQ. 2ND AFTERSHOCK JUL 23-31,52 - 0000 PST

IIIU303 52.008.0 FIRE HOUSE, TEHACHAPI, CALIFORNIA COMP S80E

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



KERN COUNTY EQ. 2ND AFTERSHOCK JUL 23-31,52 - 0000 PST
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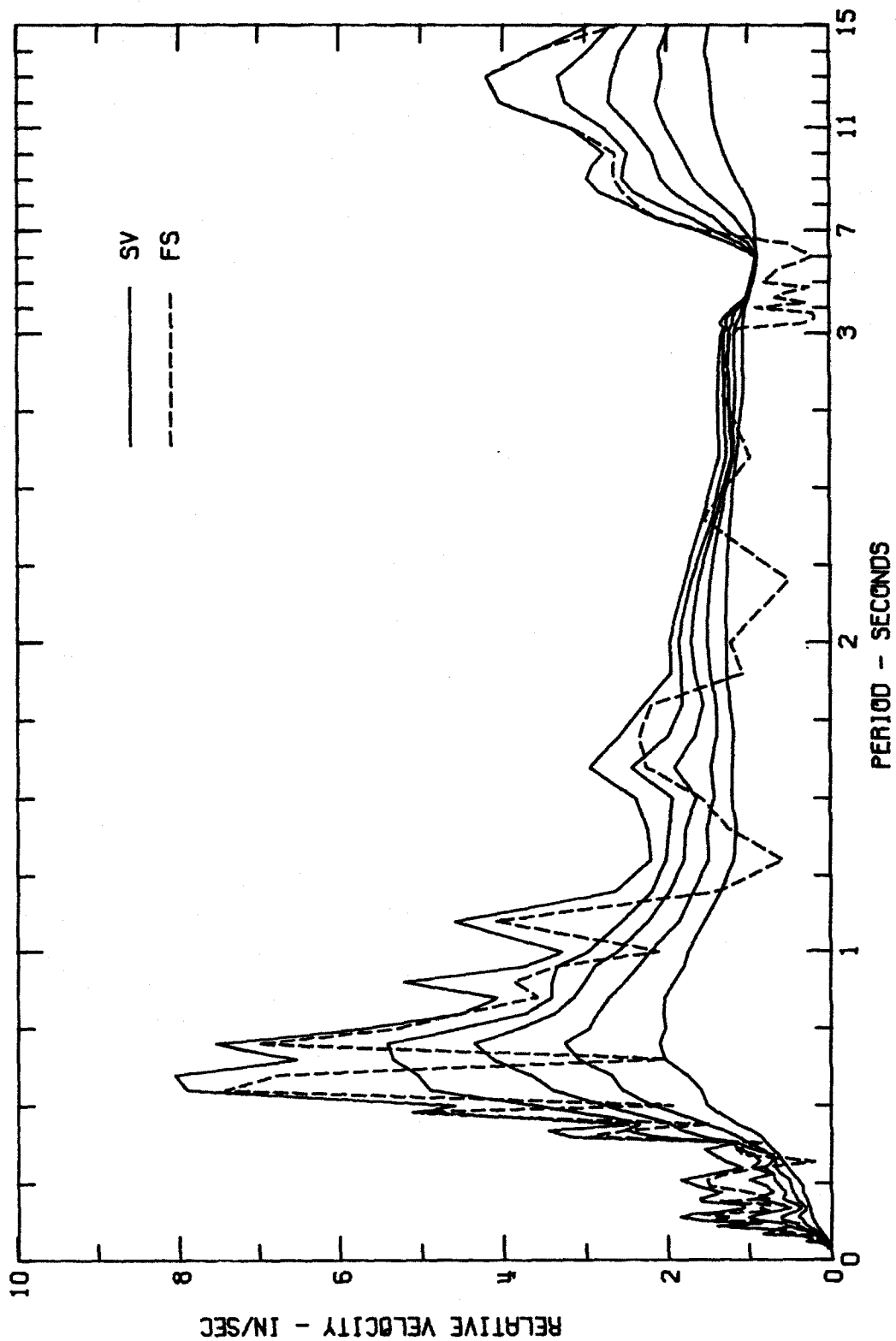
THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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0.80	302-2	606-3	470-2	969-4	476-2	452-3	419-2	723-4	355-2	398-3	377-2	639-4	312-2	338-3	332-2	549-4	265-2	251-3	268-2	430-4	197-2
0.85	636-2	101-2	751-2	144-3	752-2	613-3	432-2	869-4	453-2	498-3	355-2	710-4	368-2	405-3	311-2	584-4	299-2	278-3	259-2	424-4	206-2
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0.95	110-1	184-2	124-1	209-3	122-1	127-2	859-2	145-3	845-2	913-3	601-2	103-3	603-2	608-3	404-2	705-4	402-2	344-3	250-2	424-4	227-2
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1.30	693-2	157-2	792-2	953-4	761-2	126-2	660-2	766-4	611-2	980-3	520-2	596-4	473-2	720-3	375-2	446-4	348-2	478-3	255-2	323-4	231-2
1.40	619-2	152-2	738-2	793-4	682-2	124-2	629-2	652-4	560-2	997-3	508-2	524-4	447-2	753-3	382-2	405-4	338-2	506-3	251-2	301-4	227-2
1.50	422-2	134-2	627-2	609-4	561-2	114-2	480-2	521-4	480-2	935-3	456-2	428-4	391-2	716-3	355-2	338-4	299-2	496-3	243-2	262-4	207-2
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1.70	268-2	896-3	376-2	317-4	331-2	758-3	363-2	269-4	280-2	657-3	341-2	235-4	243-2	534-3	305-2	194-4	197-2	402-3	247-2	175-4	148-2
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2.20	766-3	424-3	246-2	826-5	132-2	501-3	193-2	761-5	121-2	450-3	187-2	700-5	108-2	389-3	183-2	651-5	941-3	322-3	178-2	716-5	778-3
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RELATIVE VELOCITY RESPONSE SPECTRUM
KERN COUNTY EQ. 2ND AFTERSHOCK JUL 23-31.52 - 0000 PST
1111U303 52.008.0 FIRE HOUSE, TEHACHAPI, CALIFORNIA COMP UP
DAMPING VALUES ARE 0. 2. 5. 10 AND 20 PERCENT OF CRITICAL

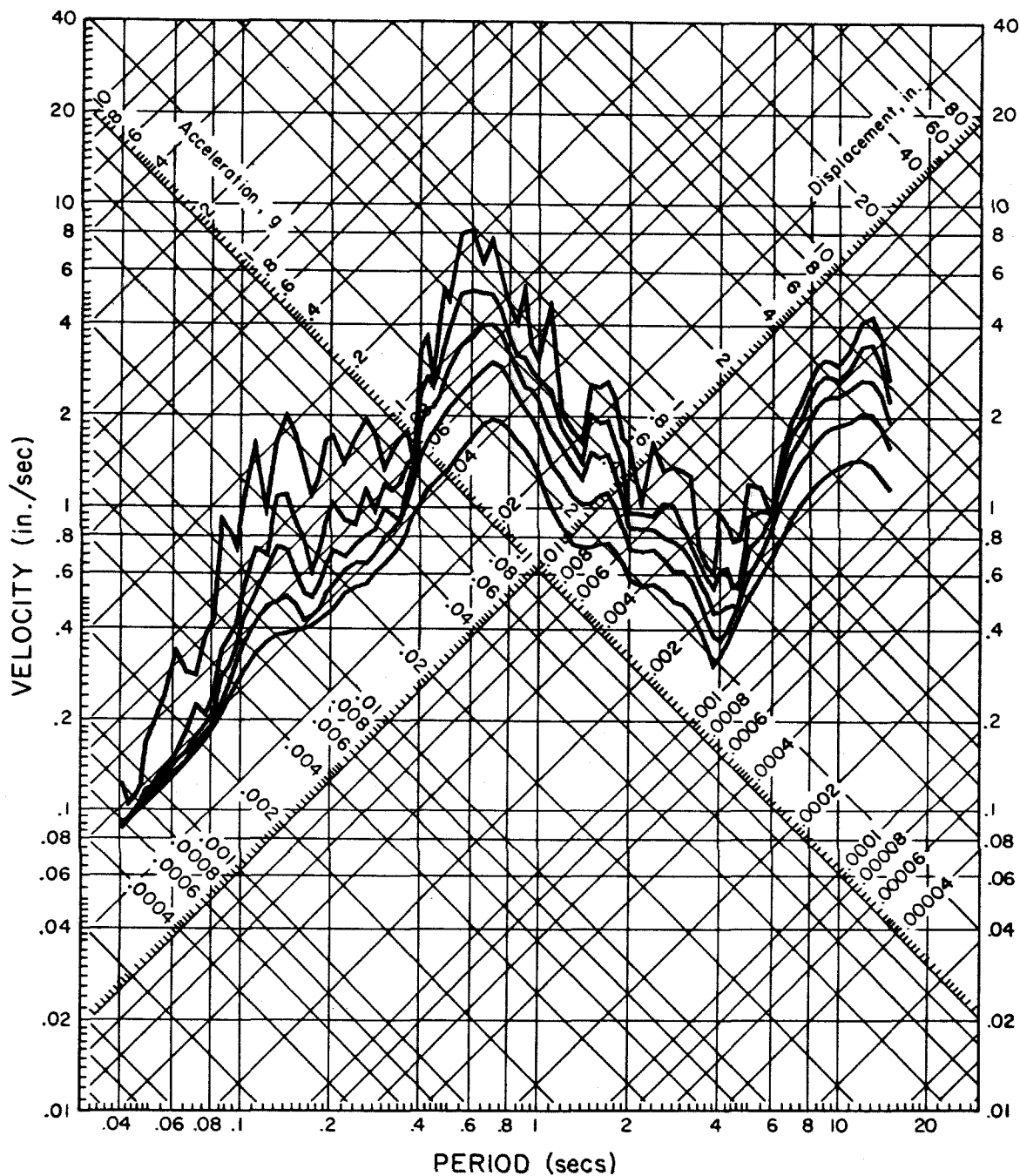


RESPONSE SPECTRUM

KERN COUNTY EQ. 2ND AFTERSHOCK JUL 23-31, 52 - 0000 PST

111U303 52.008.0 FIRE HOUSE, TEHACHAPI, CALIFORNIA COMP UP

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

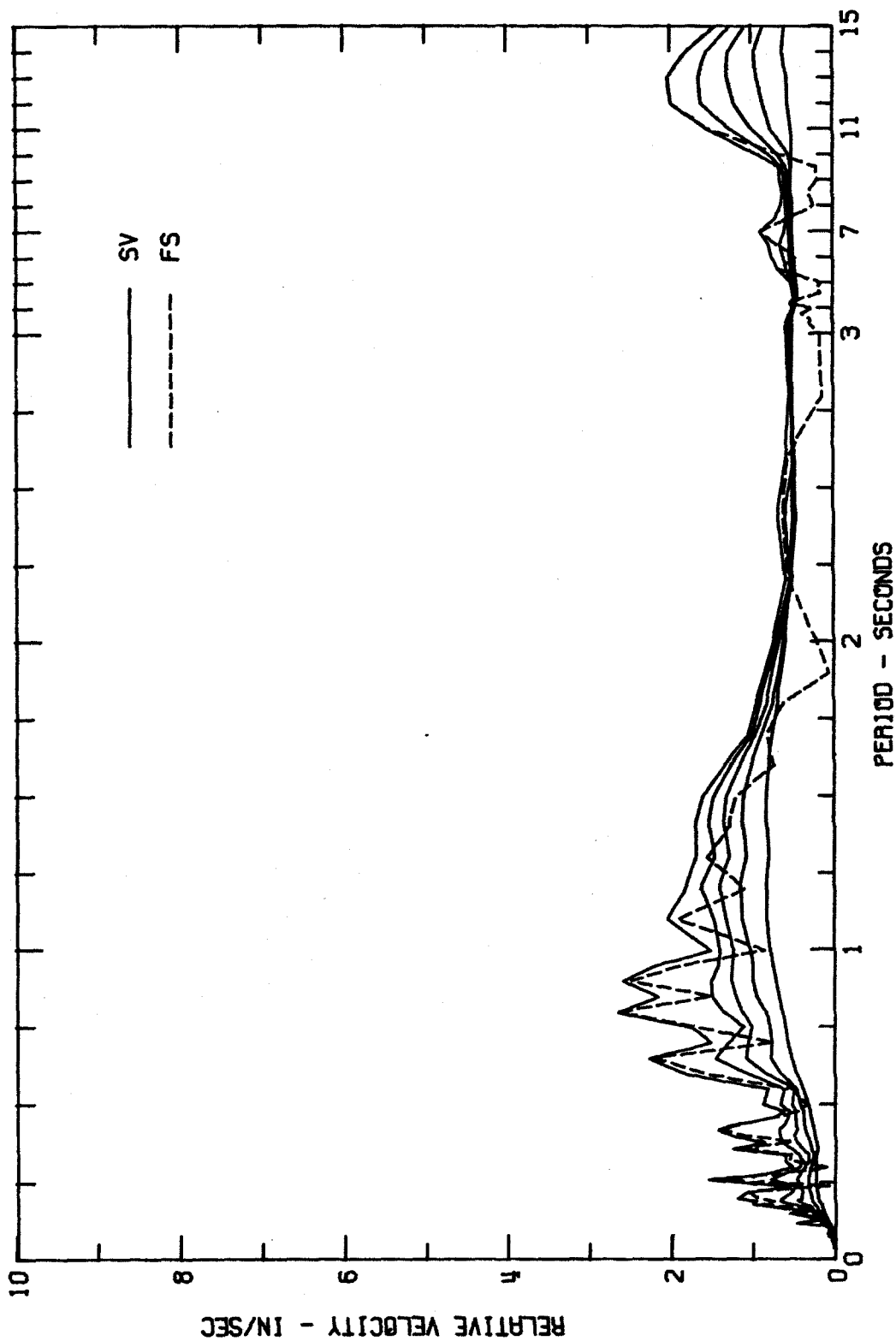


I11U303 52.008.0 FIRE HOUSE, TEHACHAPI, CALIFORNIA COMP UP

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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0.80	450-2	577-3	452-2	922-4	453-2	458-3	373-2	730-4	359-2	405-3	338-2	651-4	318-2	258-2
0.85	358-2	540-3	407-2	765-4	399-2	439-3	341-2	599-4	313-2	376-3	314-2	537-4	278-2	227-2
0.90	388-2	740-3	523-3	935-4	517-2	439-3	341-2	556-4	306-2	352-3	301-2	447-4	245-2	207-2
0.95	336-2	509-3	375-2	577-4	337-2	420-3	335-2	476-4	278-2	363-3	289-2	414-4	240-2	194-2
1.00	211-2	481-3	329-2	492-4	302-2	419-3	298-2	429-4	263-2	354-3	262-2	364-4	222-2	176-2
1.10	410-2	796-3	460-2	673-4	454-2	419-3	295-2	355-4	239-2	308-3	223-2	261-4	175-2	137-2
1.20	135-2	383-3	264-2	722-4	200-2	344-3	219-2	244-4	180-2	295-3	197-2	211-4	154-2	123-2
1.30	582-3	364-3	220-2	220-4	176-2	325-3	201-2	197-4	157-2	279-3	179-2	170-4	134-2	107-2
1.40	125-2	358-3	225-2	187-4	161-2	307-3	198-2	160-4	138-2	272-3	178-2	142-4	122-2	101-2
1.50	159-2	596-3	239-2	271-4	249-2	476-3	193-2	216-4	199-2	356-3	164-2	163-4	149-2	142-2
1.60	227-2	625-3	296-2	249-4	245-2	476-3	245-2	190-4	186-2	365-3	192-2	147-4	143-2	142-2
1.70	234-2	692-3	258-2	245-4	255-2	512-3	198-2	181-4	189-2	397-3	165-2	141-4	146-2	110-2
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1.90	106-2	502-3	195-2	142-4	166-2	410-3	182-2	116-4	135-2	318-3	166-2	907-5	105-2	843-3
2.00	122-2	501-3	197-2	128-4	157-2	299-3	186-2	769-5	942-3	268-3	171-2	703-5	842-3	715-3
2.20	507-3	355-3	178-2	751-5	101-2	328-3	170-2	694-5	936-3	292-3	161-2	630-5	836-3	707-3
2.40	156-2	609-3	156-2	108-4	159-2	352-3	144-2	629-5	923-3	318-3	139-2	573-5	835-3	715-3
2.60	979-3	539-3	135-2	815-5	130-2	420-3	126-2	635-5	101-2	324-3	119-2	495-5	784-3	663-3
2.80	130-2	597-3	137-2	779-5	134-2	447-3	129-2	584-5	100-2	339-3	123-2	447-5	762-3	605-3
3.00	121-2	623-3	132-2	708-5	130-2	410-3	129-2	467-5	859-3	346-3	123-2	400-5	726-3	610-3
3.20	110-2	639-3	129-2	638-5	125-2	374-3	125-2	374-5	734-3	335-3	121-2	342-5	659-3	563-3
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3.60	182-3	363-3	130-2	286-5	633-3	332-3	125-2	262-5	579-3	292-3	118-2	234-5	510-3	421-3
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4.60	523-3	565-3	994-3	273-5	772-3	394-3	982-3	190-5	539-3	340-3	965-3	165-5	465-3	470-3
4.80	246-3	677-3	973-3	300-5	887-3	530-3	964-3	235-5	694-3	453-3	950-3	202-5	594-3	528-3
5.00	817-3	937-3	961-3	383-5	117-2	731-3	945-3	299-5	919-3	577-3	935-3	236-5	725-3	592-3
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6.00	214-3	869-3	900-3	247-5	910-3	907-3	896-3	257-5	950-3	892-3	890-3	254-5	934-3	848-3
6.50	517-3	156-2	120-2	379-5	151-2	142-2	148-2	345-5	137-2	126-2	985-3	308-5	122-2	104-2
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7.50	214-2	259-2	214-2	472-5	217-2	227-2	171-2	414-5	190-2	200-2	141-2	365-5	167-2	152-2
8.00	238-2	325-2	248-2	519-5	255-2	287-2	212-2	459-5	225-2	241-2	171-2	387-5	189-2	150-2
8.50	255-2	389-2	283-2	551-5	288-2	343-2	241-2	486-5	253-2	288-2	193-2	409-5	212-2	163-2
9.00	265-2	434-2	297-2	548-5	302-2	383-2	254-2	484-5	267-2	322-2	166-2	321-5	174-2	174-2
9.50	265-2	453-2	290-2	513-5	299-2	401-2	252-2	455-5	265-2	346-2	213-2	394-5	228-2	180-2
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11.00	317-2	575-2	317-2	486-5	329-2	498-2	277-2	421-5	284-2	423-2	242-2	350-5	242-2	189-2
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13.00	420-2	870-2	420-2	526-5	420-2	707-2	333-2	425-5	341-2	531-2	267-2	323-5	256-2	199-2
14.00	359-2	800-2	359-2	417-5	359-2	648-2	295-2	338-5	291-2	515-2	256-2	270-5	231-2	180-2
15.00	258-2	617-2	293-2	280-5	258-2	524-2	267-2	238-5	219-2	449-2	236-2	206-5	188-2	154-2

RELATIVE VELOCITY RESPONSE SPECTRUM
KERN COUNTY EQ. 5TH AFTERSHOCK JUL 23-31.52 - 0000 PST
IIIIU304 52.010.0 FIRE HOUSE, TEHACHAPI, CALIFORNIA COMP N10E
DAMPING VALUES ARE 0. 2. 5. 10 AND 20 PERCENT OF CRITICAL

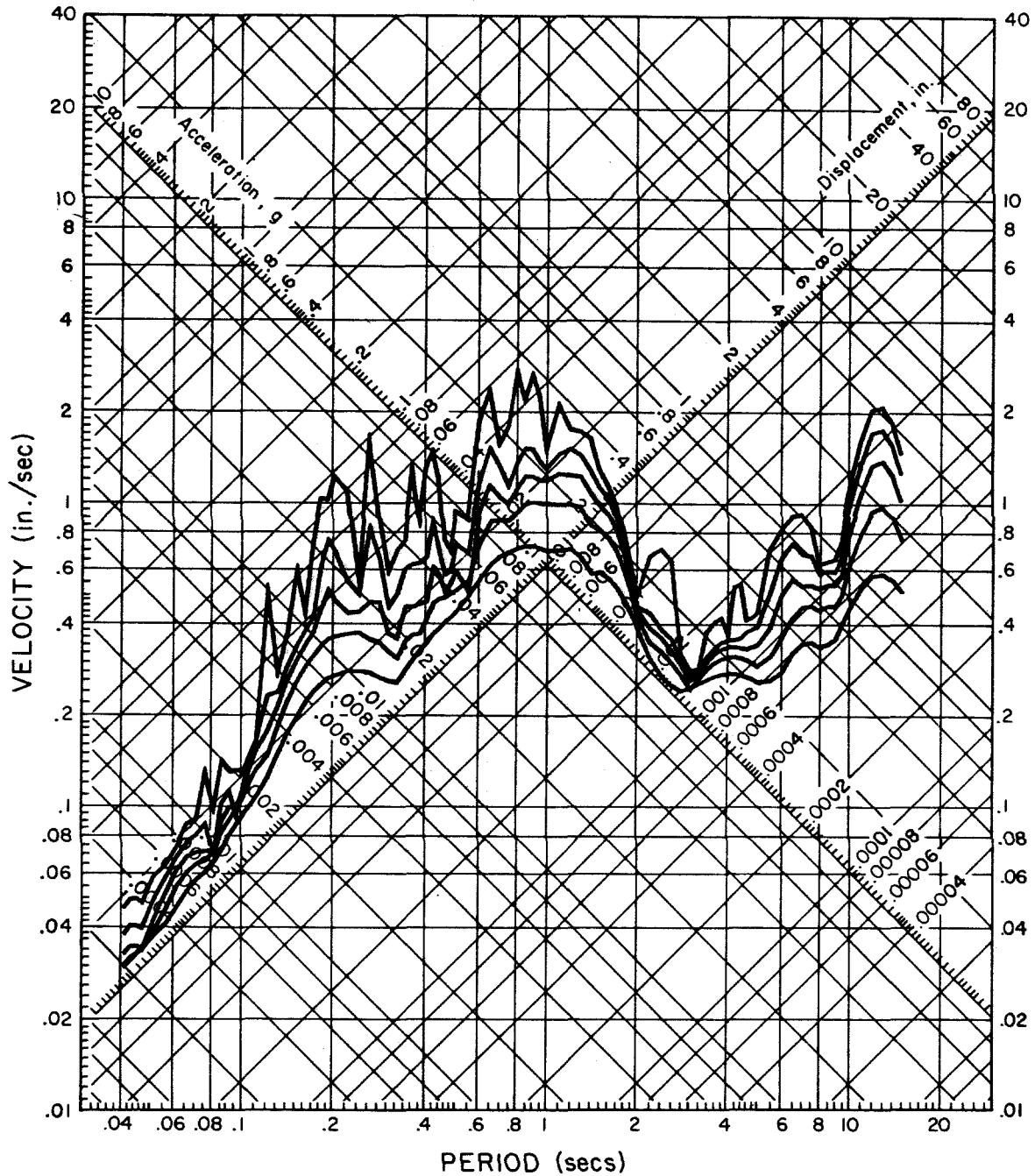


RESPONSE SPECTRUM

KERN COUNTY EQ. 5TH AFTERSHOCK JUL 23-31,52 - 0000 PST

IIIU304 S2.010.0 FIRE HOUSE, TEHACHAPI, CALIFORNIA COMP NIDE

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



KERN COUNTY EQ. 5TH AFTERSHOCK JUL 23-31,52 - 0000 PST

IIU304 52.010.0 FIRE HOUSE, TEHACHAPI, CALIFORNIA COMP N10E

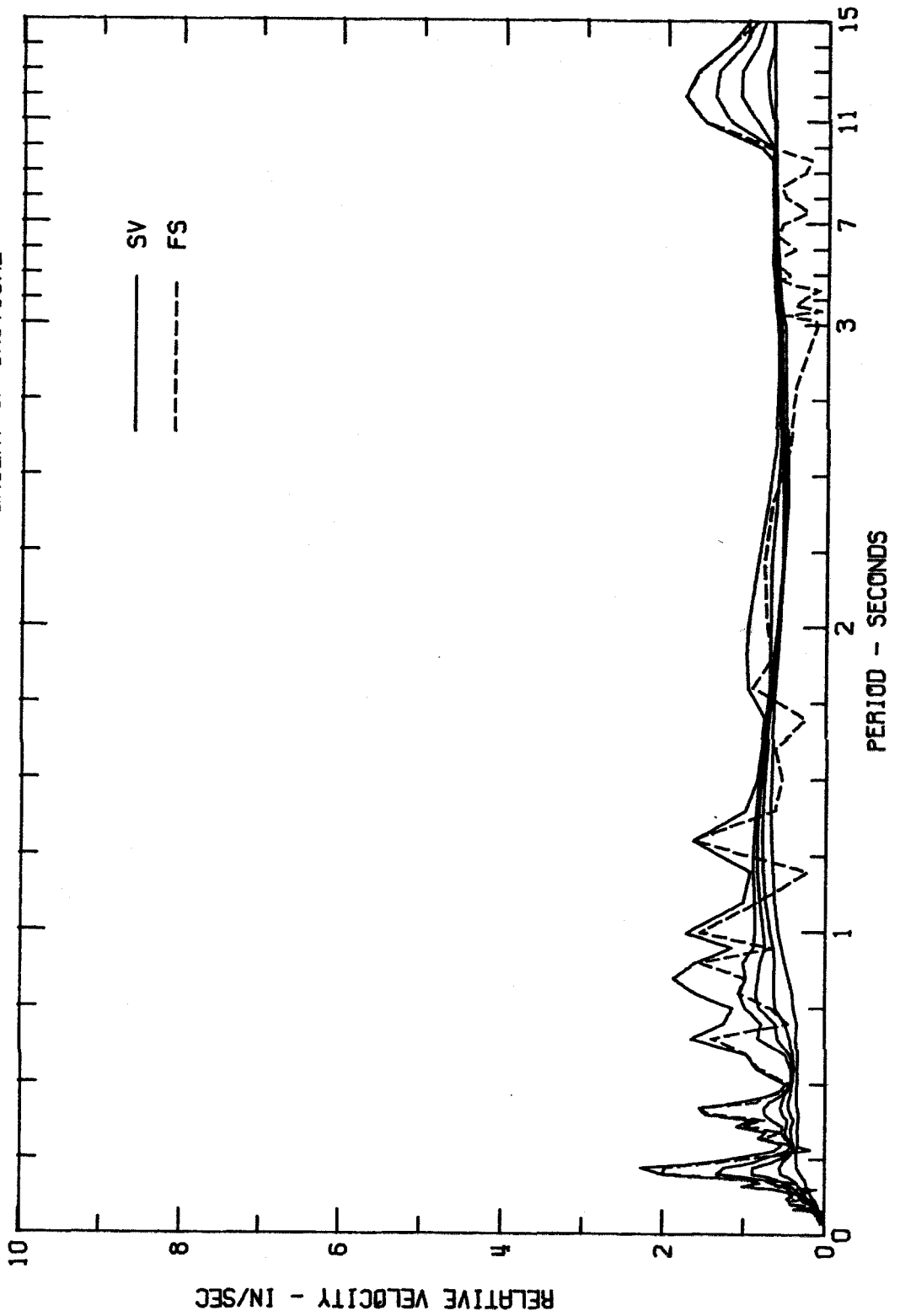
THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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0.042	188-4	323-6	232-4	187-4	483-4	265-6	196-4	154-4	396-4	226-6	155-4	132-4	339-4	208-6	142-4	121-4	312-4	203-6	126-4
0.044	206-4	340-6	262-4	180-4	486-4	276-6	222-4	145-4	394-4	238-6	178-4	125-4	339-4	225-6	146-4	119-4	322-4	223-6	131-4
0.046	208-4	344-6	282-4	166-4	470-4	285-6	242-4	137-4	389-4	242-6	196-4	116-4	330-4	241-6	152-4	116-4	329-4	244-6	135-4
0.048	206-4	400-6	302-4	177-4	523-4	333-6	260-4	148-4	436-4	285-6	212-4	126-4	373-4	268-6	161-4	119-4	351-4	267-6	139-4
0.050	165-4	454-6	321-4	185-4	571-4	381-6	279-4	156-4	479-4	326-6	229-4	134-4	410-4	299-6	173-4	122-4	375-4	290-6	149-4
0.055	279-4	549-6	377-4	185-4	627-4	500-6	331-4	169-4	572-4	445-6	278-4	151-4	508-4	393-6	218-4	132-4	449-4	352-6	161-4
0.060	508-4	691-6	535-4	196-4	723-4	638-6	370-4	181-4	668-4	578-6	316-4	164-4	605-4	510-6	255-4	144-4	535-4	438-6	192-4
0.065	207-5	883-6	468-4	213-4	853-4	767-6	401-4	185-4	742-4	692-6	326-4	166-4	669-4	617-6	270-4	149-4	596-4	535-6	211-4
0.070	311-4	986-6	504-4	205-4	885-4	875-6	438-4	183-4	785-4	769-6	369-4	161-4	690-4	705-6	290-4	148-4	632-4	626-6	225-4
0.075	805-4	152-5	968-4	276-4	127-3	102-5	502-4	185-4	857-4	831-6	400-4	151-4	696-4	772-6	334-4	142-4	646-4	711-6	260-4
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0.085	900-4	187-5	109-3	264-4	138-3	136-5	611-4	192-4	100-3	118-5	477-4	167-4	873-4	108-5	412-4	154-4	803-4	966-6	355-4
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0.380	523-3	519-4	866-3	368-4	859-3	376-4	668-3	266-4	622-3	276-4	484-3	197-4	457-3	219-4	324-3	157-4	363-3	194-4	242-3
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0.480	426-3	520-4	629-3	231-4	681-3	445-4	567-3	198-4	583-3	412-4	487-3	183-4	539-3	376-4	491-3	168-4	492-3	316-4	319-3
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0.550	547-3	754-4	825-3	254-4	861-3	587-4	626-3	198-4	671-3	436-4	502-3	147-4	498-3	476-4	486-3	162-4	544-3	426-4	400-3
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0.650	221-2	238-3	228-2	576-4	230-2	154-3	146-2	372-4	149-2	116-3	108-2	282-4	112-2	889-4	784-3	218-4	859-3	639-4	471-3
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THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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0.80	266-2	340-3	266-2	543-4	267-2	169-3	135-2	272-4	133-2	139-3	112-2	225-4	109-2	116-3	849-3	190-4	913-3	888-4	649-3	154-4	697-3
0.85	150-2	291-3	215-2	421-4	215-2	201-3	150-2	285-4	149-2	163-3	120-2	232-4	120-2	131-3	952-3	189-4	968-3	957-4	687-3	146-4	707-3
0.90	250-2	373-3	260-2	472-4	260-2	211-3	151-2	267-4	147-2	171-3	126-2	218-4	119-2	141-3	100-2	182-4	988-3	101-3	725-3	141-4	707-3
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1.30	156-2	350-3	169-2	211-4	169-2	292-3	146-2	177-4	141-2	248-3	128-2	151-4	120-2	196-3	107-2	122-4	948-3	134-3	806-3	949-5	650-3
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1.60	748-3	286-3	134-2	114-4	112-2	261-3	126-2	104-4	102-2	230-3	115-2	929-5	905-3	191-3	101-2	789-5	752-3	141-3	802-3	623-5	555-3
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RELATIVE VELOCITY RESPONSE SPECTRUM
KERN COUNTY EQ. 5TH AFTERSHOCK JUL 23-31.52 - 0000 PST
1111U304 52.010.0 FIRE HOUSE, TEHACHAPI, CALIFORNIA COMP S80E
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

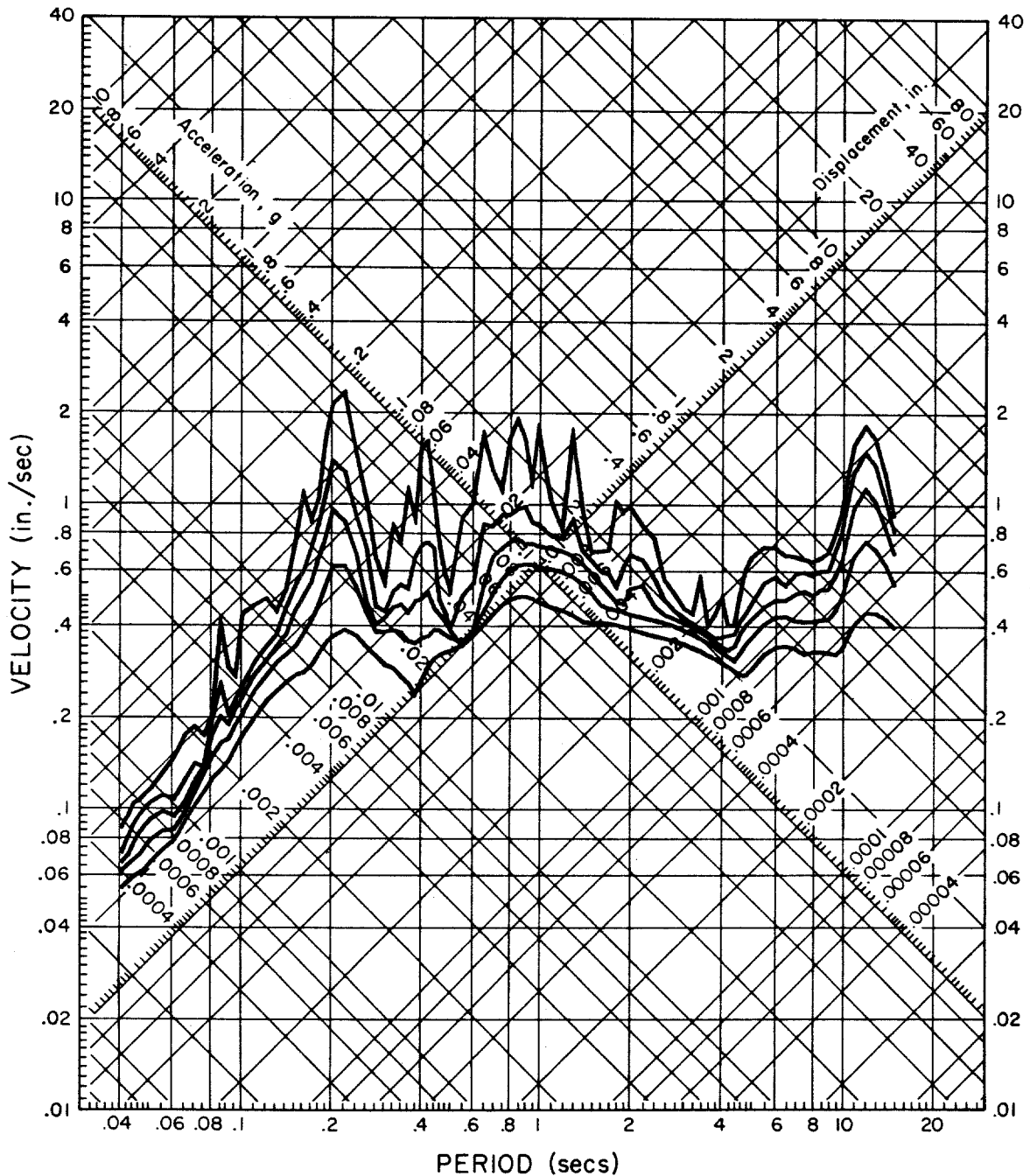


RESPONSE SPECTRUM

KERN COUNTY EQ. 5TH AFTERSHOCK JUL 23-31,52 - 0000 PST

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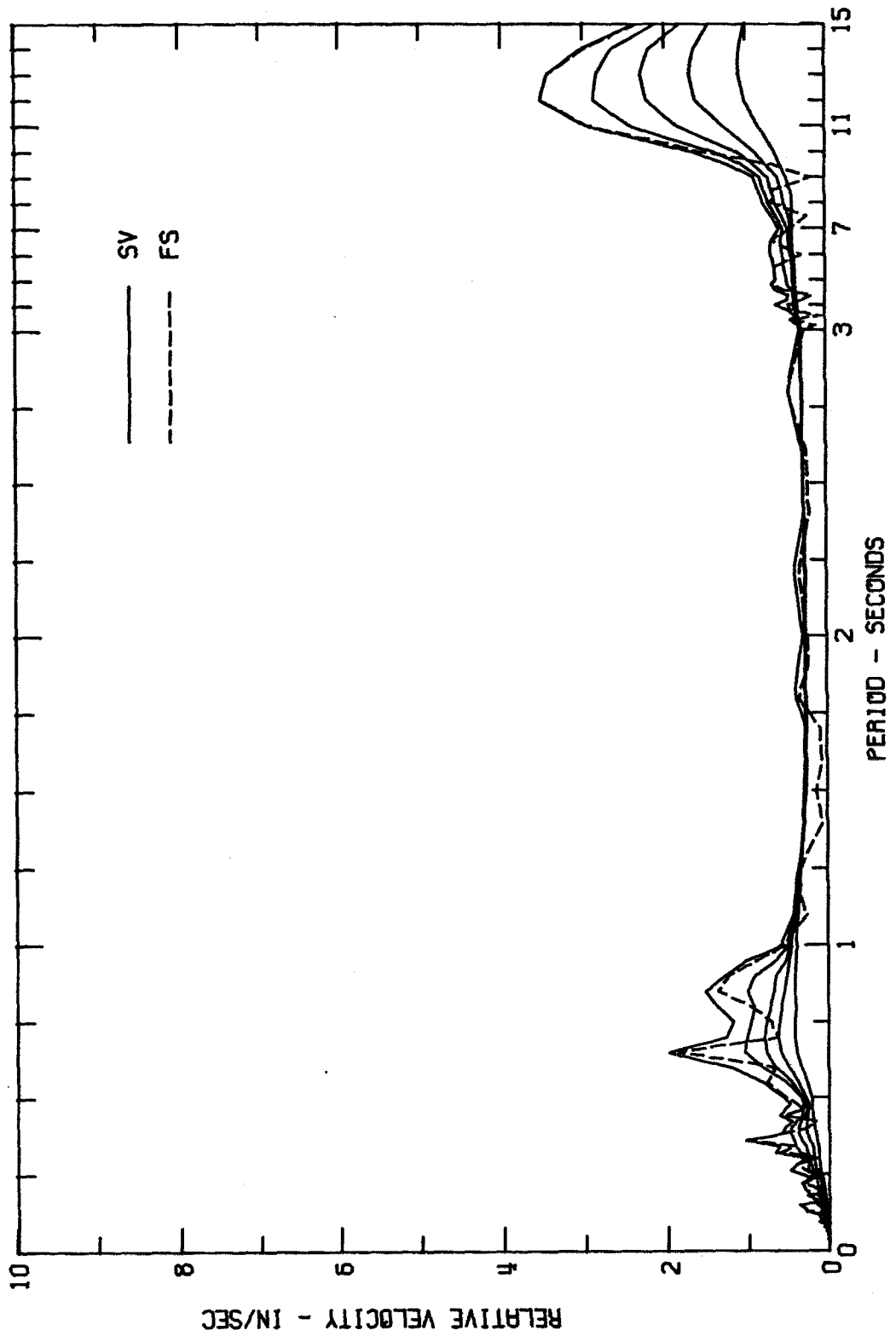
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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0.80	107-2	207-3	161-2	330-4	162-2	115-3	106-2	184-4	908-3	939-4	865-3	150-4	737-3	758-4	643-3	125-4	596-3
0.85	984-3	252-3	188-2	357-4	186-2	128-3	984-3	181-4	948-3	102-3	831-3	145-4	754-3	835-4	649-3	121-4	617-3
0.90	155-2	230-3	161-2	291-4	161-2	137-3	102-2	173-4	960-3	104-3	816-3	131-4	726-3	892-4	636-3	117-4	623-3
0.95	648-3	176-3	115-2	200-4	116-2	129-3	893-3	147-4	858-3	110-3	750-3	125-4	727-3	937-4	654-3	109-4	620-3
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1.20	232-3	154-3	938-3	109-4	809-3	144-3	904-3	102-4	757-3	131-3	857-3	936-5	686-3	112-3	785-3	812-5	587-3
1.30	165-2	344-3	165-2	208-4	166-2	181-3	896-3	110-4	877-3	137-3	855-3	835-5	662-3	117-3	793-3	725-5	566-3
1.40	633-3	208-3	995-3	108-4	936-3	153-3	868-3	801-5	688-3	139-3	835-3	732-5	625-3	119-3	783-3	643-5	537-3
1.50	556-3	163-3	853-3	742-5	684-3	153-3	831-3	696-5	641-3	138-3	803-3	635-5	582-3	119-3	762-3	560-5	499-3
1.60	641-3	175-3	808-3	701-5	689-3	150-3	792-3	603-5	592-3	136-3	767-3	648-5	535-3	116-3	733-3	491-5	458-3
1.70	258-3	187-3	761-3	663-5	693-3	157-3	749-3	558-5	582-3	135-3	730-3	482-5	501-3	120-3	702-3	461-5	446-3
1.80	916-3	286-3	979-3	905-5	100-2	150-3	705-3	475-5	524-3	134-3	692-3	432-5	468-3	126-3	669-3	432-5	440-3
1.90	683-3	279-3	991-3	792-5	924-3	184-3	708-3	524-5	611-3	139-3	654-3	402-5	460-3	131-3	638-3	405-5	434-3
2.00	745-3	308-3	973-3	789-5	969-3	213-3	692-3	546-5	670-3	164-3	617-3	424-5	518-3	136-3	607-3	380-5	427-3
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2.40	694-3	290-3	740-3	515-5	760-3	214-3	639-3	381-5	561-3	173-3	554-3	311-5	453-3	156-3	529-3	298-5	408-3
2.60	469-3	227-3	642-3	344-5	550-3	196-3	589-3	298-5	475-3	176-3	574-3	270-5	425-3	165-3	549-3	266-5	400-3
2.80	396-3	221-3	615-3	289-5	498-3	194-3	605-3	254-5	437-3	184-3	590-3	244-5	413-3	173-3	566-3	239-5	389-3
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3.40	554-3	302-3	645-3	267-5	559-3	208-3	636-3	185-5	385-3	202-3	623-3	184-5	373-3	192-3	602-3	184-5	355-3
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3.80	430-3	261-3	658-3	185-5	431-3	216-3	649-3	154-5	358-3	210-3	637-3	155-5	347-3	201-3	618-3	157-5	332-3
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4.40	107-3	275-3	671-3	145-5	393-3	257-3	663-3	136-5	368-3	234-3	653-3	125-5	335-3	211-3	636-3	126-5	301-3
4.60	448-3	366-3	674-3	176-5	500-3	297-3	667-3	144-5	406-3	270-3	657-3	133-5	369-3	235-3	640-3	120-5	321-3
4.80	605-3	463-3	677-3	205-5	606-3	330-3	670-3	146-5	432-3	301-3	660-3	136-5	394-3	262-3	644-3	123-5	343-3
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5.60	637-3	691-3	694-3	167-5	668-3	549-3	689-3	133-5	531-3	491-3	681-3	120-5	475-3	434-3	667-3	109-5	420-3
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8.80	580-3	736-3	697-3	153-5	661-3	643-3	692-3	134-5	577-3	553-3	684-3	117-5	496-3	455-3	672-3	998-6	408-3
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9.20	580-3	736-3	697-3	153-5	661-3	643-3	692-3	134-5	577-3	553-3	684-3	117-5	496-3	455-3	672-3	998-6	408-3
9.40	580-3	736-3	697-3	153-5	661-3	643-3	692-3	134-5	577-3	553-3	684-3	117-5	496-3	455-3	672-3	998-6	408-3
9.60	580-3	736-3	697-3	153-5	661-3	643-3	692-3	134-5	577-3	553-3	684-3	117-5	496-3	455-3	672-3	998-6	408-3
9.80	580-3	736-3	697-3	153-5	661-3	643-3	692-3	134-5	5								

RELATIVE VELOCITY RESPONSE SPECTRUM
KERN COUNTY EQ. 5TH AFTERSHOCK JUL 23-31.52 - 0000 PST
111U304 52.010.0 FIRE HOUSE, TEHACHAPI, CALIFORNIA COMP UP
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

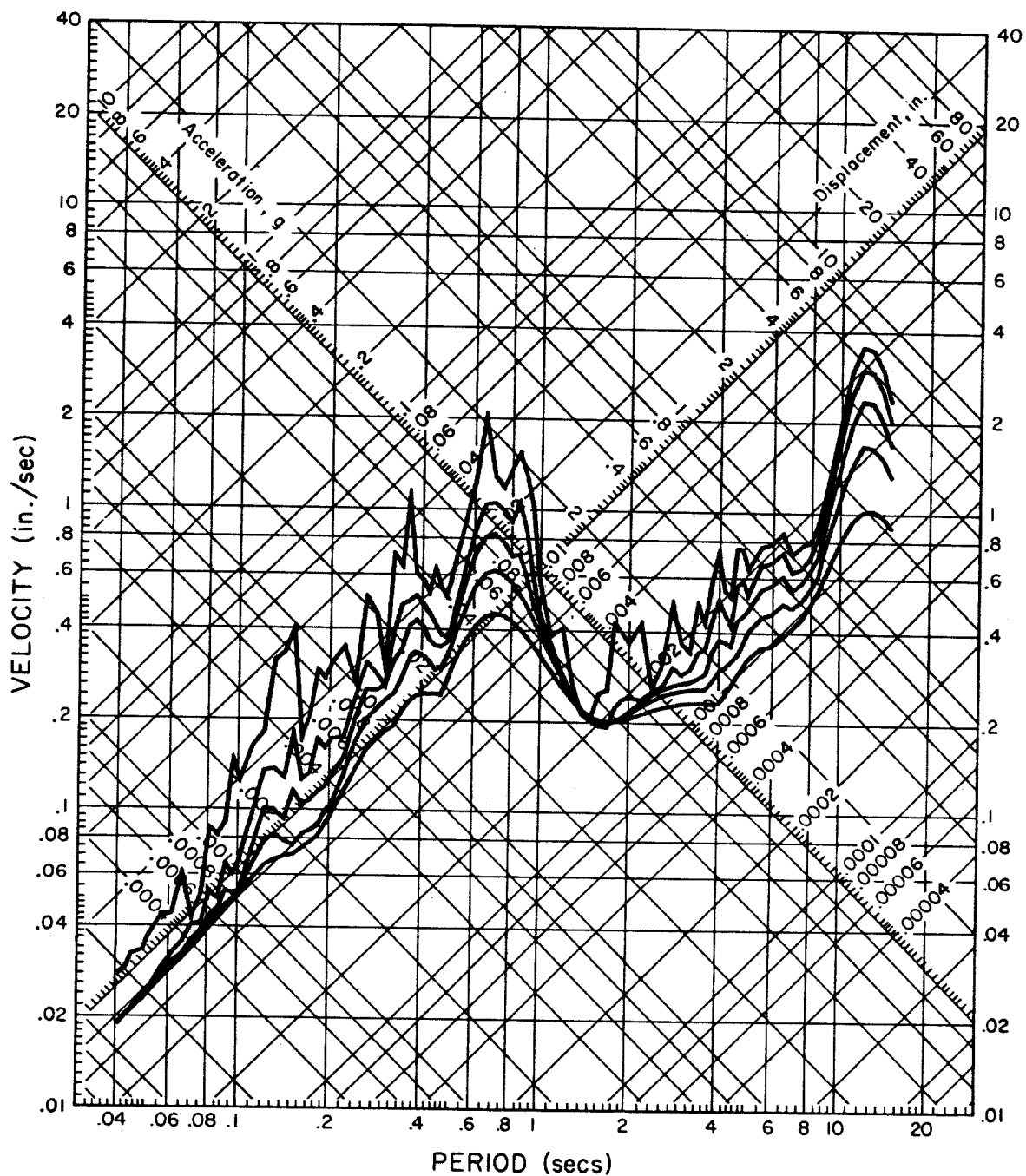


RESPONSE SPECTRUM

KERN COUNTY EQ. 5TH AFTERSHOCK JUL 23-31,52 - 0000 PST

IIII304 52.010.0 FIRE HOUSE, TEHACHAPI, CALIFORNIA COMP UP

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

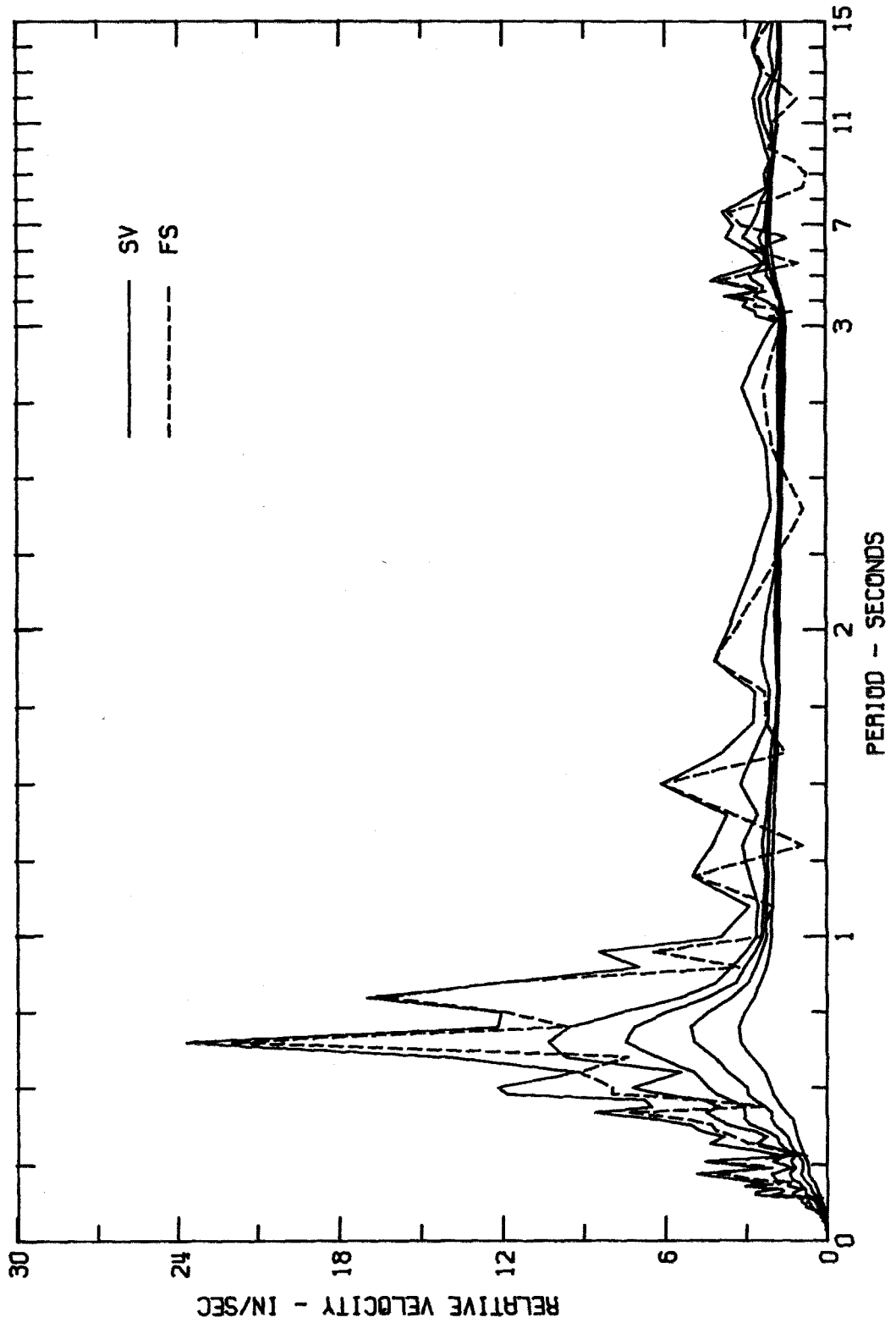
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0.048	175-4	250-6	175-4	111-4	328-4	175-6	116-4	779-5	229-4	171-6	105-4	762-5	224-4	172-6	908-5	767-5	226-4	172-6	683-5	768-5	226-4
0.050	136-4	289-6	171-4	118-4	363-4	192-6	122-4	786-5	241-4	188-6	105-4	769-5	236-4	188-6	924-5	771-5	236-4	187-6	717-5	769-5	236-4
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0.060	194-4	414-6	248-4	117-4	434-4	305-6	160-4	867-5	320-4	287-6	136-4	816-5	300-4	277-6	107-4	789-5	290-4	272-6	842-5	775-5	285-4
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0.075	461-4	612-6	490-4	111-4	513-4	484-6	205-4	882-5	406-4	456-6	179-4	830-5	382-4	442-6	145-4	805-5	370-4	430-6	131-4	793-5	361-4
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0.090	745-4	129-5	781-4	163-4	903-4	925-6	340-4	116-4	645-4	745-6	271-4	938-5	520-4	665-6	233-4	841-5	464-4	641-6	197-4	820-5	448-4
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IIII304 52.010.0 FIRE HOUSE, TEHACHAPI, CALIFORNIA COMP UP

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT										DAMPING = 2 PER CENT										DAMPING = 5 PER CENT										DAMPING = 10 PER CENT										DAMPING = 20 PER CENT									
PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV												
0.75	729-3	140-3	119-2	254-4	117-2	117-3	974-3	213-4	983-3	919-4	787-3	168-4	770-3	717-4	627-3	133-4	601-3	525-4	435-3	103-4	440-3																												
0.80	980-3	172-3	139-2	275-4	135-2	114-3	932-3	184-4	902-3	883-4	733-3	142-4	694-3	720-4	592-3	117-4	566-3	539-4	418-3	935-5	423-3																												
0.85	138-2	206-3	153-2	292-4	152-2	142-3	101-2	201-4	105-2	953-4	688-3	135-4	704-3	706-4	552-3	102-4	521-3	542-4	426-3	836-5	401-3																												
0.90	124-2	183-3	129-2	231-4	128-2	119-3	921-3	151-4	837-3	849-4	661-3	107-4	593-3	680-4	523-3	879-5	475-3	539-4	420-3	746-5	376-3																												
0.95	894-3	153-3	102-2	174-4	101-2	908-4	660-3	103-4	600-3	726-4	535-3	827-5	480-3	648-4	493-3	758-5	429-3	532-4	414-3	664-5	352-3																												
1.00	549-3	918-4	590-3	939-5	577-3	717-4	513-3	735-5	450-3	679-4	495-3	700-5	426-3	620-4	462-3	652-5	389-3	523-4	403-3	594-5	329-3																												
1.10	266-3	662-4	434-3	559-5	378-3	618-4	430-3	523-5	353-3	596-4	424-3	509-5	340-3	564-4	409-3	494-5	322-3	503-4	376-3	480-5	287-3																												
1.20	404-3	771-4	404-3	548-5	404-3	545-4	371-3	387-5	285-3	537-4	371-3	385-5	281-3	521-4	366-3	385-5	272-3	487-4	348-3	397-5	255-3																												
1.30	256-3	545-4	325-3	330-5	263-3	495-4	328-3	299-5	239-3	495-4	331-3	303-5	239-3	493-4	333-3	312-5	238-3	479-4	325-3	337-5	231-3																												
1.40	626-4	464-4	291-3	242-5	208-3	467-4	296-3	244-5	209-3	474-4	302-3	250-5	212-3	481-4	307-3	263-5	215-3	480-4	307-3	294-5	215-3																												
1.50	146-3	488-4	268-3	222-5	204-3	472-4	274-3	215-5	197-3	473-4	281-3	218-5	198-3	484-4	289-3	232-5	192-3	490-4	294-3	264-5	205-3																												
1.60	724-4	631-4	263-3	252-5	247-3	487-4	260-3	196-5	190-3	523-4	259-3	188-5	193-3	531-4	268-3	199-5	196-3	535-4	278-3	227-5	197-3																												
1.70	876-4	681-4	266-3	241-5	251-3	515-4	263-3	182-5	190-3	523-4	261-3	182-5	198-3	570-4	264-3	191-5	199-3	567-4	274-3	216-5	198-3																												
1.80	363-3	120-3	404-3	380-5	421-3	635-4	265-3	200-5	221-3	567-4	261-3	182-5	198-3	570-4	264-3	191-5	199-3	567-4	274-3	216-5	198-3																												
1.90	233-3	117-3	361-3	334-5	390-3	710-4	268-3	201-5	234-3	620-4	263-3	178-5	205-3	616-4	263-3	186-5	204-3	604-4	272-3	207-5	199-3																												
2.00	241-3	115-3	304-3	294-5	361-3	759-4	270-3	194-5	238-3	679-4	265-3	176-5	213-3	668-4	264-3	181-5	210-3	645-4	272-3	200-5	202-3																												
2.20	347-3	147-3	413-3	311-5	420-3	822-4	273-3	174-5	234-3	805-4	269-3	172-5	229-3	778-4	272-3	175-5	222-3	733-4	276-3	189-5	209-3																												
2.40	217-3	976-4	282-3	173-5	255-3	957-4	282-3	170-5	250-3	930-4	283-3	167-5	243-3	890-4	283-3	169-5	233-3	825-4	284-3	180-5	216-3																												
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3.60	401-4	241-3	372-3	190-5	420-3	199-3	368-3	157-5	347-3	164-3	362-3	130-5	286-3	165-3	363-3	118-5	273-3	138-3	348-3	127-5	228-3																												
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4.00	472-3	463-3	632-3	296-5	727-3	321-3	405-3	205-5	504-3	237-3	380-3	152-5	372-3	187-3	371-3	121-5	294-3	146-3	356-3	121-5	229-3																												
4.20	298-3	360-3	482-3	209-5	539-3	302-3	394-3	175-5	451-3	244-3	388-3	142-5	366-3	202-3	378-3	118-5	302-3	164-3	362-3	116-5	246-3																												
4.40	169-3	359-3	642-3	190-5	743-3	413-3	429-3	152-5	412-3	249-3	395-3	132-5	356-3	221-3	385-3	118-5	316-3	185-3	369-3	110-5	264-3																												
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4.80	682-3	568-3	682-3	252-5	743-3	447-3	489-3	198-5	585-3	340-3	406-3	151-5	446-3	276-3	397-3	123-5	362-3	232-3	380-3	107-5	304-3																												
5.00	639-3	508-3	638-3	208-5	638-3	418-3	491-3	171-5	525-3	373-3	411-3	153-5	469-3	315-3	401-3	131-5	397-3	256-3	385-3	109-5	322-3																												
5.50	645-3	665-3	657-3	224-5	760-3	573-3	533-3	194-5	655-3	478-3	422-3	162-5	547-3	386-3	412-3	132-5	441-3	306-3	395-3	109-5	350-3																												
6.00	303-3	744-3	690-3	211-5	779-3	646-3	540-3	183-5	676-3	542-3	448-3	154-5	567-3	435-3	421-3	124-5	456-3	340-3	404-3	102-5	356-3																												
6.50	683-3	876-3	687-3	212-5	847-3	753-3	562-3	182-5	728-3	626-3	462-3	152-5	606-3	505-3	428-3	124-5	489-3	392-3	412-3	100-5	379-3																												
7.00	436-3	798-3	587-3	166-5	716-3	696-3	530-3	145-5	625-3	606-3	470-3	126-5	544-3	532-3	433-3	112-5	477-3	455-3	418-3	992-6	409-3																												
7.50	233-3	914-3	682-3	166-5	766-3	769-3	626-3	140-5	644-3	688-3	557-3	125-5	576-3	600-3	467-3	110-5	503-3	523-3	423-3	104-5	486-3																												
8.00	696-3	100-2	791-3	160-5	788-3	896-3	726-3	143-5	703-3	806-3	642-3	129-5	633-3	702-3	532-3	114-5	551-3	619-3	428-3	104-5	486-3																												
8.50	654-3	123-2	844-3	174-5	911-3	111-2	772-3	157-5	820-3	959-3	680-3	136-5	709-3	822-3	559-3	117-5	608-3	735-3	432-3	110-5	543-3																												
9.00	171-3	160-2	901-3	203-5	112-2	144-2	824-3	183-5	101-2	127-2	729-3	161-5	889-3	109-2	602-3	140-5	765-3	880-3	498-3	118-5																													

RELATIVE VELOCITY RESPONSE SPECTRUM
CENTRAL CALIFORNIA EARTHQUAKE APR 25, 1954 - 1234 PST
111U305 54.002.0 PUBLIC LIBRARY, HOLLISTER, CALIFORNIA COMP N89W
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

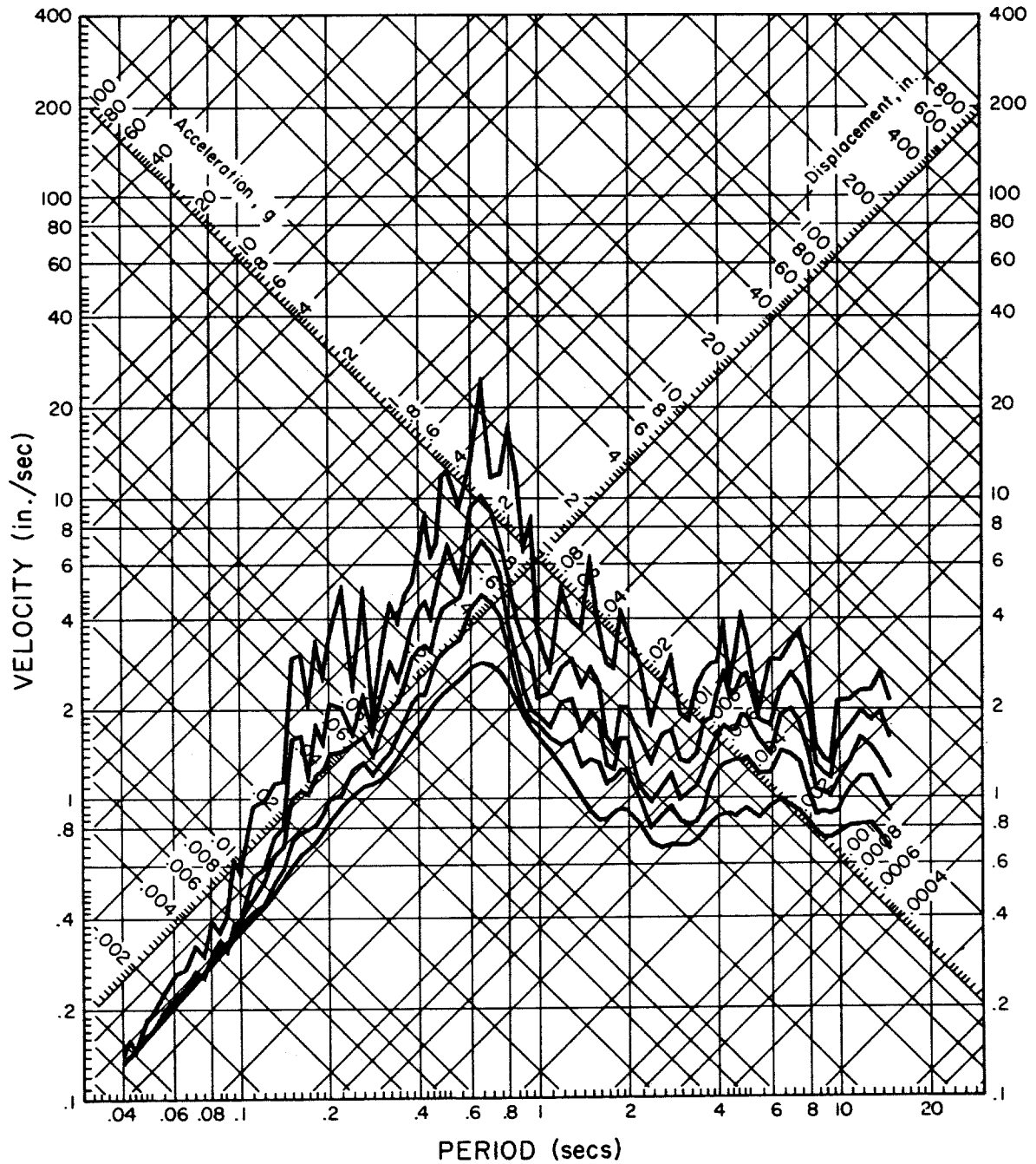


RESPONSE SPECTRUM

CENTRAL CALIFORNIA EARTHQUAKE APR 25, 1954 - 1234 PST

IIIU305 54.002.0 PUBLIC LIBRARY, HOLLISTER, CALIFORNIA COMP N89W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



CENTRAL CALIFORNIA EARTHQUAKE APR 25, 1954 - 1234 PST
 IIIU305 54.002.0 PUBLIC LIBRARY, HOLLISTER, CALIFORNIA COMP N89W

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT			DAMPING = 2 PER CENT			DAMPING = 5 PER CENT			DAMPING = 10 PER CENT			DAMPING = 20 PER CENT		
PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD
0.040	184-4	892-6	307-4	570-4	140-3	838-6	169-4	536-4	131-3	838-6	147-4	536-4	131-3	839-6
0.042	220-4	104-5	365-4	603-4	155-3	922-6	182-4	534-4	137-3	924-6	164-4	537-4	138-3	927-6
0.044	159-4	100-5	288-4	532-4	143-3	101-5	200-4	535-4	144-3	101-5	183-4	539-4	145-3	102-5
0.046	261-4	119-5	472-4	578-4	163-3	110-5	214-4	535-4	151-3	111-5	213-4	539-4	152-3	111-5
0.048	325-4	140-5	469-4	621-4	183-3	124-5	280-4	551-4	162-3	122-5	243-4	545-4	160-3	122-5
0.050	712-4	152-5	884-4	622-4	191-3	132-5	323-4	541-4	166-3	133-5	263-4	547-4	168-3	132-5
0.055	521-4	198-5	820-4	670-4	226-3	172-5	440-4	583-4	197-3	167-5	334-4	565-4	188-3	165-5
0.060	691-4	247-5	108-3	701-4	258-3	205-5	525-4	584-4	215-3	200-5	445-4	570-4	207-3	198-5
0.065	126-3	277-5	195-3	672-4	268-3	241-5	773-4	583-4	232-3	238-5	630-4	578-4	230-3	236-5
0.070	937-4	357-5	142-3	747-4	321-3	295-5	798-4	618-4	265-3	282-5	687-4	589-4	253-3	274-5
0.075	222-4	355-5	105-3	646-4	297-3	300-5	863-4	545-4	251-3	307-5	848-4	558-4	257-3	313-5
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0.085	179-3	482-5	190-3	683-4	356-3	455-5	140-3	645-4	336-3	432-5	124-3	613-4	319-3	415-5
0.090	220-3	590-5	297-3	745-4	412-3	441-5	155-3	557-4	308-3	451-5	142-3	569-4	314-3	462-5
0.095	417-3	936-5	470-3	106-3	619-3	578-5	248-3	653-4	382-3	521-5	175-3	590-4	344-3	524-5
0.100	356-3	890-5	452-3	910-4	559-3	620-5	232-3	633-4	389-3	635-5	163-3	650-4	399-3	598-5
0.110	665-3	163-4	815-3	138-3	933-3	954-5	362-3	805-4	545-3	806-5	253-3	681-4	460-3	731-5
0.120	636-3	185-4	851-3	131-3	972-3	111-4	422-3	792-4	582-3	100-4	327-3	718-4	528-3	840-5
0.130	775-3	231-4	101-2	140-3	112-2	153-4	507-3	925-4	739-3	132-4	395-3	802-4	641-3	108-4
0.140	179-3	253-4	932-3	132-3	113-2	177-4	659-3	926-4	797-3	153-4	539-3	800-4	688-3	129-4
0.150	212-2	706-4	274-2	321-3	295-2	377-4	135-2	172-3	157-2	237-4	825-3	108-3	993-3	171-4
0.160	157-2	770-4	272-2	307-3	302-2	412-4	134-2	165-3	162-2	269-4	840-3	107-3	105-2	194-4
0.170	176-2	565-4	195-2	200-3	209-2	320-4	940-3	113-3	118-2	277-4	845-3	991-4	102-2	211-4
0.180	281-2	936-4	314-2	295-3	326-2	501-4	155-2	157-3	175-2	342-4	101-2	107-3	119-2	232-4
0.190	169-2	772-4	244-2	218-3	255-2	461-4	142-2	131-3	152-2	375-4	109-2	106-3	124-2	266-4
0.200	259-2	111-3	320-2	285-3	350-2	660-4	194-2	169-3	207-2	447-4	134-2	116-3	140-2	312-4
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0.320	298-2	226-3	443-2	226-3	445-2	145-3	265-2	145-3	285-2	101-3	181-2	100-3	198-2	726-4
0.340	350-2	210-3	385-2	185-3	388-2	134-3	225-2	118-3	247-2	113-3	191-2	101-3	210-2	881-4
0.360	417-2	276-3	476-2	218-3	482-2	173-3	278-2	137-3	301-2	140-3	228-2	110-3	245-2	106-3
0.380	436-2	319-3	519-2	226-3	528-2	229-3	378-2	161-3	378-2	178-3	291-2	127-3	294-2	126-3
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THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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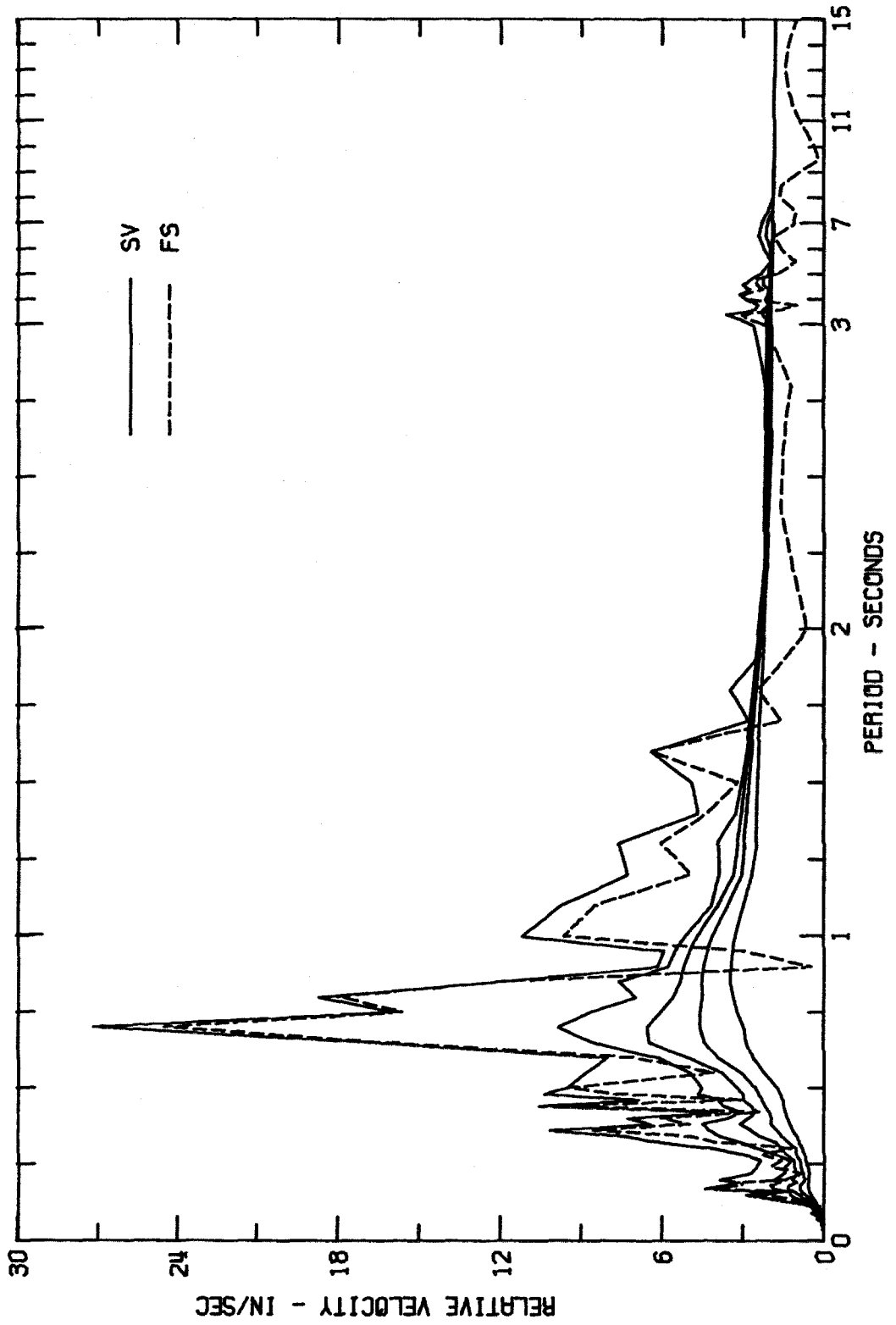
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2.40	883-3	684-3	207-2	121-4	179-2	500-3	178-2	889-5	131-2	367-3	170-2	657-5	962-3	345-3	178-2	774-5	987-3	284-3			

RELATIVE VELOCITY RESPONSE SPECTRUM

CENTRAL CALIFORNIA EARTHQUAKE APR 25, 1954 - 1234 PST

111U305 54.002.0 PUBLIC LIBRARY, HOLLISTER, CALIFORNIA COMP S01W

DAMPING VALUES ARE 0. 2. 5. 10 AND 20 PERCENT OF CRITICAL

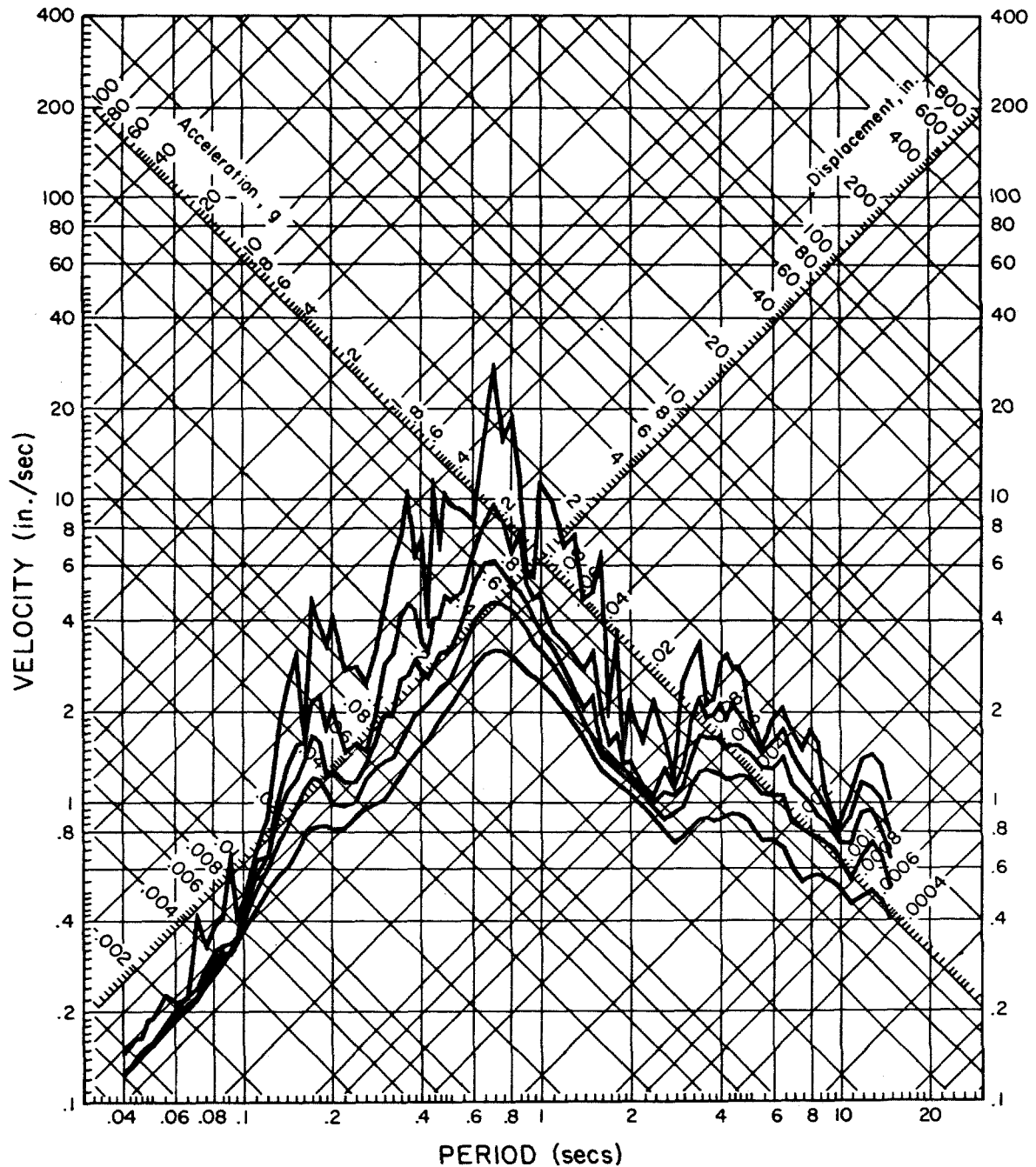


RESPONSE SPECTRUM

CENTRAL CALIFORNIA EARTHQUAKE APR 25, 1954 - 1234 PST

111U305 54.002.0 PUBLIC LIBRARY, HOLLISTER, CALIFORNIA COMP S01W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



CENTRAL CALIFORNIA EARTHQUAKE APR 25, 1954 - 1234 PST

IIU305 54.002.0 PUBLIC LIBRARY, HOLLISTER, CALIFORNIA COMP SOLM

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

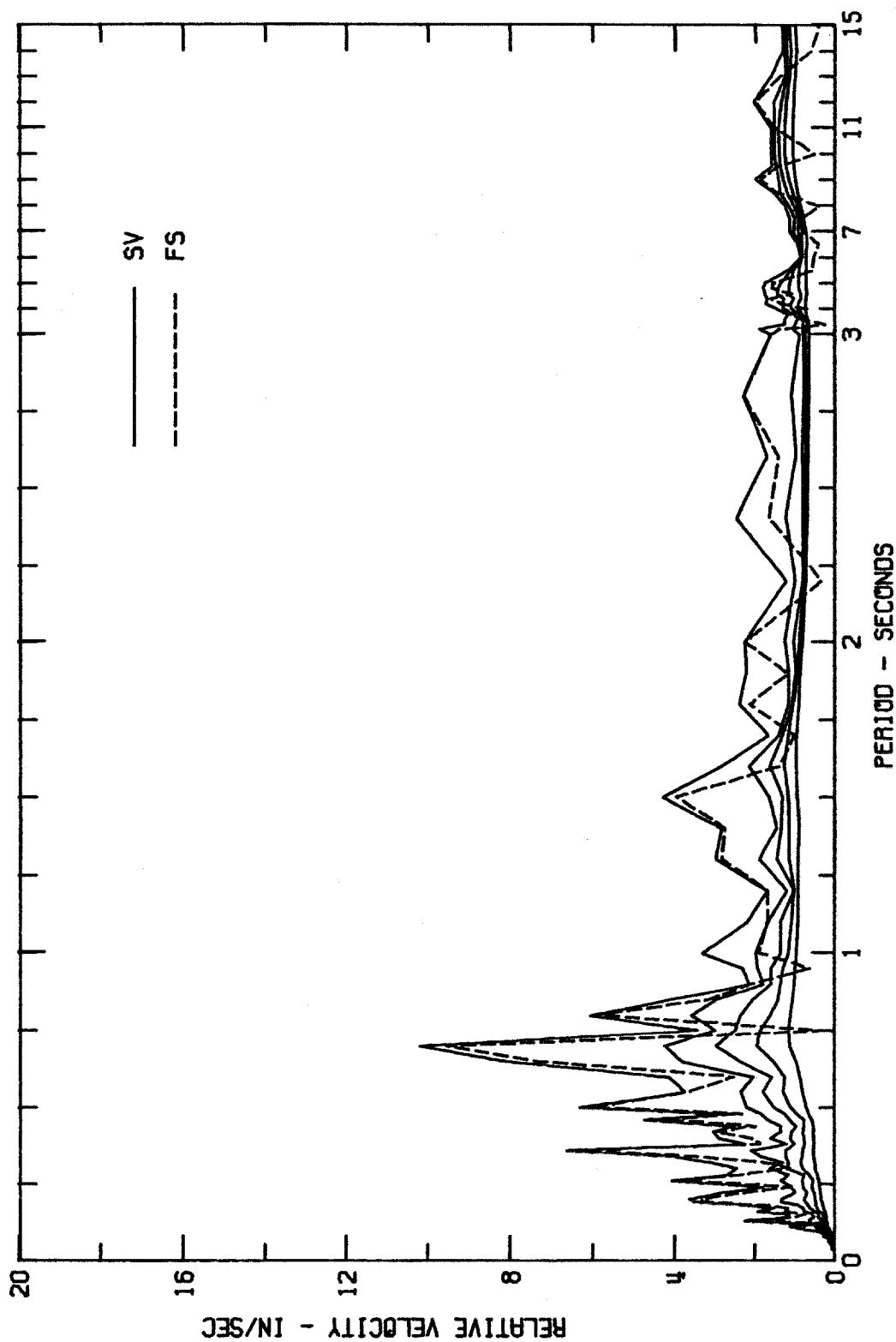
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PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
0.040	304-4	921-6	448-4	588-4	144-3	792-6	271-4	506-4	124-3	789-6	241-4	505-4	124-3	786-6	221-4	502-4	123-3	782-6	197-4	500-4	122-3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							</

111U305 54.002.0 PUBLIC LIBRARY, HOLLISTER, CALIFORNIA COMP SOIM

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT			DAMPING = 2 PER CENT			DAMPING = 5 PER CENT			DAMPING = 10 PER CENT			DAMPING = 20 PER CENT		
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0.80	180-1	239-2	187-1	382-3	187-1	847-3	698-2	135-3	665-2	666-3	558-2	107-3	523-2	548-3
0.85	119-1	165-2	121-1	234-3	122-1	104-2	764-2	147-3	770-2	673-3	531-2	959-4	498-2	546-3
0.90	477-3	823-3	617-2	103-3	574-2	745-3	576-2	943-4	520-2	651-3	521-2	826-4	455-2	529-3
0.95	299-2	836-3	594-2	948-4	553-2	709-3	552-2	805-4	469-2	617-3	500-2	705-4	408-2	502-3
1.00	967-2	179-2	112-1	183-3	112-1	761-3	513-2	778-4	478-2	581-3	469-2	598-4	365-2	505-3
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RELATIVE VELOCITY RESPONSE SPECTRUM
CENTRAL CALIFORNIA EARTHQUAKE APR 25, 1954 - 1234 PST
111U305 54.002.0 PUBLIC LIBRARY, HOLLISTER, CALIFORNIA COMP UP
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

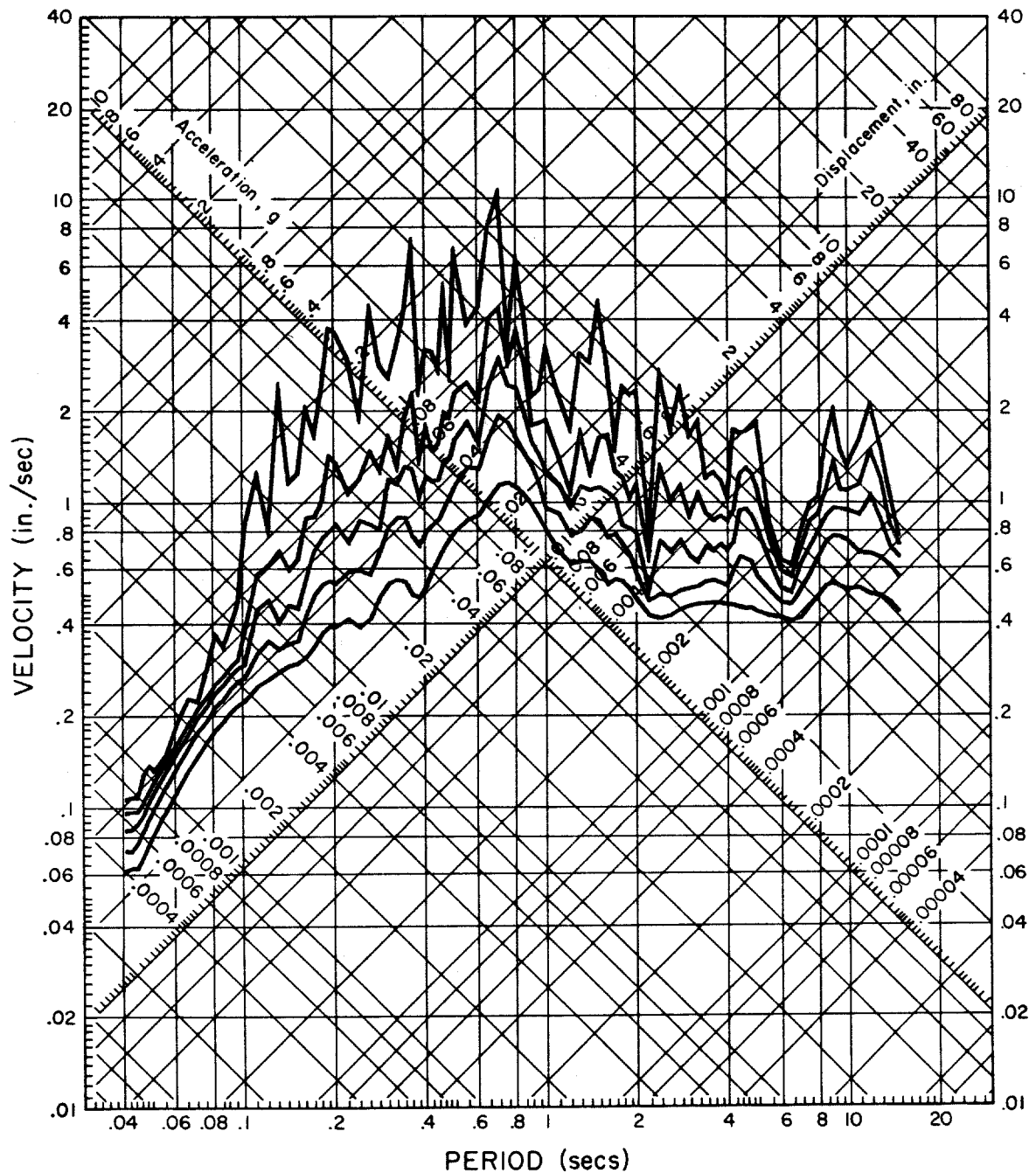


RESPONSE SPECTRUM

CENTRAL CALIFORNIA EARTHQUAKE APR 25, 1954 - 1234 PST

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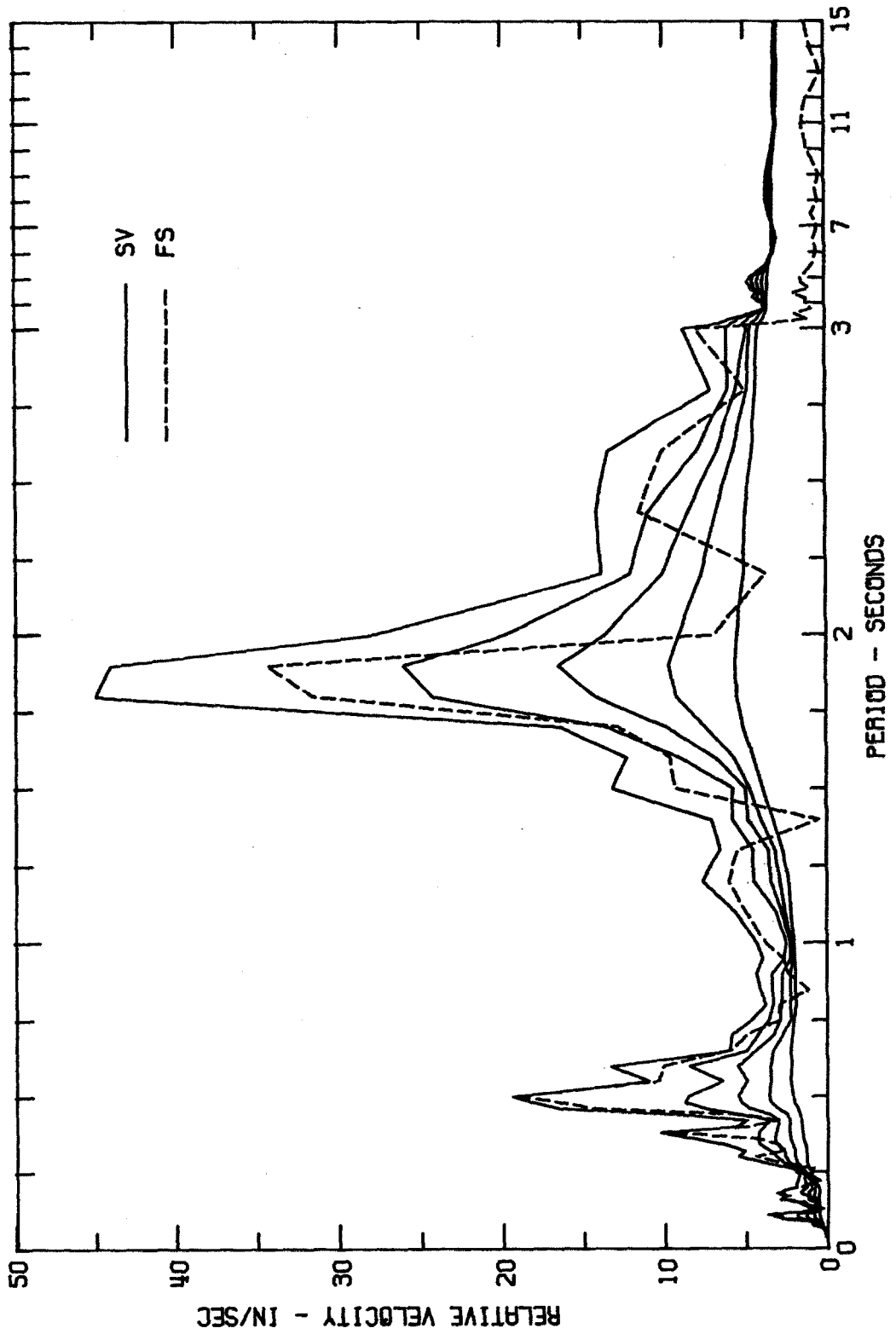
CENTRAL CALIFORNIA EARTHQUAKE APR 25, 1954 - 1234 PST
IIU305 54.002.0 PUBLIC LIBRARY, HOLLISTER, CALIFORNIA COMP UP

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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0.065	139-3	231-5	164-3	559-4	223-3	190-5	111-3	462-4	183-3	176-5	102-3	431-4	170-3	159-5	902-4	389-4	153-3	134-5	723-4	332-4	130-3	0.070	930-4	242-5	151-3	505-4	217-3	230-5	123-3	480-4	206-3	215-5	114-3	447-4	193-3	123-5	100-3	404-4	173-3	161-5	803-4	347-4	145-3			
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0.085	121-3	445-5	294-3	630-4	329-3	357-5	188-3	508-4	264-3	334-5	164-3	478-4	247-3	300-5	133-3	435-4	222-3	253-5	103-3	374-4	187-3	0.090	549-4	560-5	352-3	707-4	391-3	406-5	211-3	512-4	283-3	380-5	185-3	478-4	265-3	343-5	152-3	440-4	253-3	320-4	211-3					
0.095	358-3	703-5	434-3	797-4	465-3	452-5	234-3	514-4	299-3	423-5	206-3	483-4	280-3	382-5	169-3	440-4	253-3	348-5	120-3	375-4	219-3	0.100	750-3	123-4	751-3	130-3	803-3	587-5	336-3	598-4	369-3	458-5	226-3	477-4	288-3	415-5	187-3	348-5	133-3	379-4	219-3					
0.110	993-3	213-4	114-2	180-3	121-2	998-5	512-3	842-4	570-3	762-5	356-3	647-4	435-3	548-5	243-3	479-4	313-3	427-5	162-3	373-4	244-3	0.120	228-3	152-4	755-3	108-3	797-3	117-4	587-3	829-4	614-3	897-5	423-3	636-4	469-3	658-5	283-3	445-4	344-3	491-5	185-3	366-4	257-3			
0.130	226-2	473-4	228-2	286-3	228-2	140-4	642-3	852-4	680-3	817-5	350-3	498-4	394-3	670-5	276-3	407-4	324-3	564-5	203-3	361-4	272-3	0.140	111-2	253-4	113-2	132-3	113-2	130-4	546-3	684-4	587-3	100-4	417-3	523-4	450-3	751-5	295-3	337-3	635-5	216-3	348-4	285-3				
0.150	738-3	293-4	116-2	133-3	122-2	152-4	561-3	693-4	640-3	105-4	411-3	483-4	440-3	821-5	309-3	384-4	443-3	694-5	232-3	333-4	290-3	0.160	126-2	510-4	197-2	203-3	200-2	222-4	797-3	889-4	874-3	141-4	510-3	567-4	550-3	107-4	389-3	423-3	777-5	258-3	327-4	305-3				
0.170	114-2	444-4	153-2	157-3	164-2	238-4	809-3	845-4	880-3	183-4	631-3	660-4	680-3	131-4	451-3	475-4	487-3	898-5	291-3	336-4	331-3	0.180	197-2	660-4	227-2	208-3	230-2	285-4	947-3	898-4	947-3	898-4	845-4	880-3	183-4	631-3	660-4	680-3	131-4	451-3	475-4	487-3	898-5	291-3	336-4	331-3
0.190	336-2	111-3	357-2	316-3	369-2	424-4	136-2	119-3	140-2	237-4	793-3	673-4	757-3	163-4	489-3	472-4	540-3	115-4	322-3	351-4	382-3	0.200	334-2	113-3	365-2	291-3	357-2	422-4	134-2	108-3	132-2	264-4	793-3	673-4	757-3	163-4	489-3	472-4	540-3	115-4	322-3	351-4	382-3			
0.220	230-2	102-3	286-2	215-3	291-2	367-4	101-2	777-4	104-2	253-4	718-3	531-4	723-3	202-4	593-3	398-4	583-3	145-4	398-3	319-4	405-3	0.240	113-2	719-4	178-2	127-3	188-2	453-4	109-2	803-4	118-2	326-4	800-3	587-4	854-3	523-4	529-3	121-4	348-3	286-4	381-3					
0.260	394-2	175-3	410-2	264-3	423-2	600-4	136-2	910-4	145-2	342-4	823-3	523-4	826-3	235-4	547-3	356-4	568-3	168-4	411-3	268-4	407-3	0.280	233-2	123-3	270-2	160-3	276-2	554-4	116-2	719-4	124-2	354-4	794-3	669-4	641-4	116-2	390-4	829-3	459-4	871-3	253-4	502-3	307-4	544-3		
0.300	112-2	121-3	246-2	137-3	253-2	769-4	164-2	870-4	161-2	557-4	116-2	586-4	112-2	390-4	829-3	459-4	871-3	253-4	502-3	307-4	544-3	0.320	179-2	165-3	312-2	164-3	324-2	652-4	130-2	649-4	128-2	575-4	125-2	624-4	128-2	472-4	829-3	427-4	873-3	290-4	540-3	280-4	536-3			
0.340	356-2	222-3	406-2	196-3	411-2	101-3	189-2	891-4	186-2	697-4	125-2	624-4	128-2	472-4	829-3	427-4	873-3	290-4	540-3	280-4	536-3	0.360	659-2	387-3	666-2	305-3	675-2	126-3	263-4	232-2	998-4	233-2	827-4	121-2	619-4	102-2	445-4	102-2	474-4	779-3	312-4	707-3	288-4	543-3	214-4	477-3
0.380	186-2	140-3	222-2	998-4	233-2	827-4	121-2	587-4	136-2	725-4	125-2	624-4	128-2	472-4	829-3	427-4	873-3	290-4	540-3	280-4	536-3	0.400	208-2	199-3	293-2	127-3	312-2	110-3	163-2	711-4	174-2	760-4	112-2	490-4	119-2	499-4	786-3	327-4	704-3	288-4	543-3	214-4	477-3			
0.420	303-2	205-3	306-2	119-3	307-2	973-4	137-2	567-4	145-2	770-4	109-2	447-4	115-2	550-4	805-3	324-4	823-3	392-4	554-3	235-4	586-3	0.440	199-2	188-3	252-2	994-4	268-2	107-3	137-2	567-4	153-2	813-4	991-3	433-4	116-2	602-4	794-3	321-4	860-3	451-4	554-3	250-4	644-3			
0.460	427-2	350-3	478-2	169-3	478-2	142-3	170-2	690-4	194-2	989-4	115-2	480-4	135-2	692-4	796-3	337-4	946-3	514-4	596-3	260-4	702-3	0.480	230-2	209-3	278-2	928-4	273-2	142-3	186-2	632-4	186-2	104-3	127-2	463-4	137-2	784-4	977-3	352-4	102-2	570-4	671-3	268-4	746-3			
0.500	604-2	509-3	635-2	208-3	640-2	179-3	222-2	733-4	224-2	126-3	154-2	518-4	158-2	895-4	112-2	373-4	112-2	625-4	738-3	270-4	786-3	0.520	366-2	331-3	375-2	111-3	378-2	213-3	236-2	722-4	243-2	157-3	180-2	537-4	180-2	121-3	131-2	387-4	128-2	749-4	836-3	271-4	856-3			
0.560	253-2	411-3	416-2	117-3	431-2	203-3	205-2	577-4	213-2	146-3	158-2	419-4	153-2	121-3	127-2	351-4	126-2	852-4	881-3	262-4	892-3	0.600	741-2	836-3	808-2	202-3	808-2	411-3	385-2	994-4	397-2	249-3	238-2	609-4	241-2	167-3	154-2	412-4	162-2	105-3	996-3	269-4	101-2			
0.650	957-2	113-2	102-1	237-3	102-1	476-3	426-2	994-4	428-2	325-3	300-2	681-4	291-2	210-3	196-2	447-4	188-2	124-3	114-2	277-4	112-2																									

RELATIVE VELOCITY RESPONSE SPECTRUM

111U306 55.002.0 WEST CENTRAL CALIFORNIA EARTHQUAKE SEPT 4, 1955 - 1801 PST
BANK OF AMERICA BUILDING, 13TH FL., SAN JOSE, CAL. COMP N59E
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

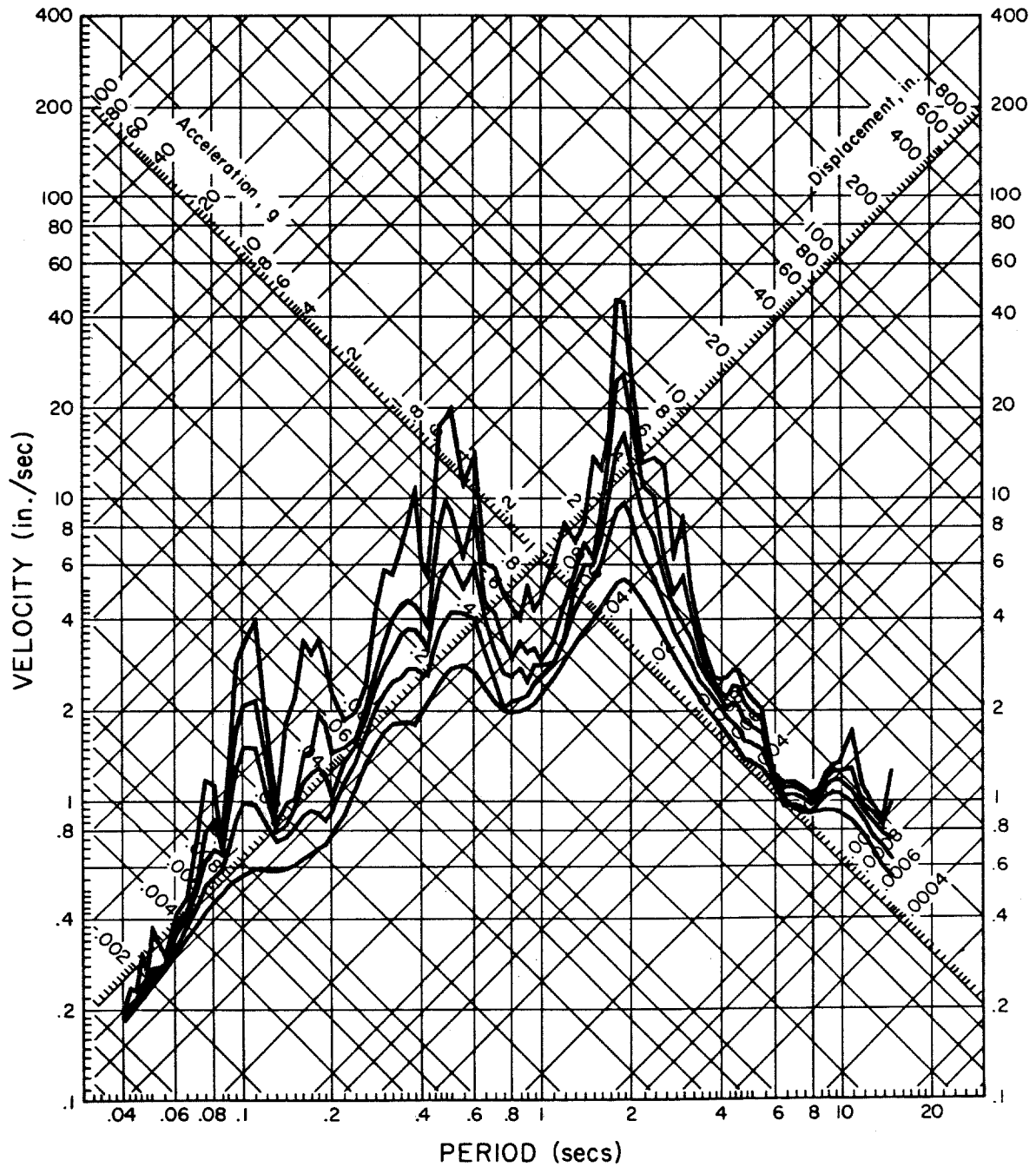


RESPONSE SPECTRUM

WEST CENTRAL CALIFORNIA EARTHQUAKE SEPT 4, 1955 - 1801 PST

111U306 55.002.0 BANK OF AMERICA BUILDING, 13TH FL., SAN JOSE, CAL. COMP NS9E

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



WEST CENTRAL CALIFORNIA EARTHQUAKE SEPT 4, 1955 - 1801 PST
 I11U306 55.002.0 BANK OF AMERICA BUILDING, 13TH FL., SAN JOSE, CAL. COMP N59E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	DAMPING = 0 PER CENT				DAMPING = 2 PER CENT				DAMPING = 5 PER CENT				DAMPING = 10 PER CENT				DAMPING = 20 PER CENT				
					PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.040	806-4	127-5	110-3	814-4	200-3	121-5	876-4	777-4	191-3	120-5	834-4	768-4	189-3	119-5	807-4	761-4	187-4	115-5	775-4	745-4	182-3				
0.042	102-3	155-5	126-3	900-4	232-3	134-5	963-4	777-4	200-3	134-5	903-4	776-4	200-3	133-5	884-4	771-4	199-3	128-5	856-4	754-4	192-3				
0.044	187-4	158-5	125-3	839-4	226-3	150-5	101-3	794-4	215-3	150-5	938-4	793-4	214-3	148-5	966-4	785-4	211-3	142-5	943-4	763-4	203-3				
0.046	159-3	217-5	197-3	104-3	296-3	174-5	128-3	843-4	238-3	169-5	109-3	820-4	231-3	164-5	106-3	800-4	225-3	157-5	103-3	773-4	215-3				
0.048	960-4	197-5	145-3	874-4	257-3	194-5	109-3	864-4	254-3	188-5	112-3	840-4	247-3	181-5	116-3	813-4	237-3	173-5	114-3	782-4	227-3				
0.050	142-3	290-5	248-3	118-3	364-3	215-5	142-3	878-4	270-3	207-5	126-3	846-4	260-3	199-5	130-3	817-4	251-3	190-5	125-3	785-4	239-3				
0.055	131-3	257-5	177-3	872-4	294-3	239-5	158-3	811-4	274-3	245-5	171-3	832-4	280-3	245-5	170-3	834-4	280-3	235-5	156-3	811-4	268-3				
0.060	174-3	394-5	294-3	112-3	413-3	366-5	260-3	104-3	384-3	336-5	240-3	963-4	352-3	304-5	219-3	877-4	319-3	290-5	190-3	840-4	304-3				
0.065	145-3	485-5	321-3	117-3	469-3	436-5	282-3	103-3	421-3	419-5	278-3	100-3	405-3	389-5	266-3	941-4	376-3	353-5	230-3	869-4	341-3				
0.070	595-3	813-5	598-3	169-3	730-3	581-5	403-3	121-3	521-3	550-5	355-3	115-3	494-3	484-5	323-3	104-3	434-3	420-5	269-3	908-4	377-3				
0.075	890-3	138-4	977-3	251-3	115-2	929-5	648-3	170-3	779-3	745-5	497-3	135-3	624-3	613-5	406-3	110-3	513-3	499-5	312-3	930-4	418-3				
0.080	827-3	142-4	102-2	227-3	111-2	108-4	739-3	171-3	849-3	861-5	543-3	139-3	676-3	698-5	444-3	115-3	548-3	575-5	343-3	943-4	452-3				
0.085	379-3	978-5	588-3	138-3	723-3	945-5	608-3	133-3	698-3	882-5	565-3	125-3	652-3	779-5	472-3	111-3	576-3	653-5	362-3	966-4	483-3				
0.090	606-3	194-4	121-2	245-3	135-2	163-4	100-2	208-3	113-2	133-4	833-3	166-3	932-3	100-4	619-3	130-3	700-3	740-5	417-3	970-4	516-3				
0.095	251-2	433-4	277-2	491-3	286-2	258-4	157-2	291-3	170-2	192-4	115-2	216-3	138-2	239-3	149-2	155-4	882-3	862-5	522-3	969-4	554-3				
0.100	293-2	514-4	298-2	525-3	323-2	325-4	191-2	330-3	204-2	237-4	138-2	239-3	149-2	155-4	882-3	157-3	974-3	882-5	522-3	969-4	554-3				
0.110	357-2	683-4	371-2	577-3	390-2	372-4	193-2	314-3	212-2	258-4	135-2	215-3	147-2	167-4	915-3	147-3	958-3	102-4	558-3	891-4	582-3				
0.120	104-2	328-4	164-2	233-3	172-2	253-4	121-2	179-3	132-2	197-4	920-3	142-3	103-2	156-4	730-3	111-3	819-3	110-4	503-3	808-4	577-3				
0.130	287-3	199-4	967-3	120-3	962-3	172-4	836-3	104-3	835-3	160-4	737-3	965-4	773-3	148-4	631-3	909-4	720-3	118-4	518-3	752-4	574-3				
0.140	127-2	402-4	156-2	209-3	180-2	216-4	836-3	113-3	972-3	182-4	688-3	956-4	819-3	166-4	665-3	877-4	745-3	130-4	556-3	714-4	583-3				
0.150	159-2	522-4	197-2	237-3	218-2	240-4	887-3	109-3	100-2	224-4	835-3	103-3	114-2	224-4	842-3	919-4	882-3	160-4	612-3	664-4	631-3				
0.160	302-2	851-4	300-2	340-3	334-2	358-4	128-2	143-3	140-2	290-4	104-2	117-3	114-2	224-4	842-3	919-4	882-3	160-4	612-3	664-4	631-3				
0.170	242-2	819-4	268-2	289-3	302-2	390-4	133-2	138-3	144-2	331-4	117-2	118-3	122-2	248-4	913-3	893-4	918-3	177-4	616-3	648-4	656-3				
0.180	305-2	968-4	323-2	305-3	338-2	549-4	175-2	174-3	191-2	363-4	125-2	116-3	127-2	256-4	897-3	825-4	896-3	196-4	598-3	641-4	684-3				
0.190	253-2	851-4	259-2	241-3	281-2	535-4	159-2	151-3	177-2	364-4	114-2	103-3	120-2	255-4	873-3	731-4	846-3	213-4	598-3	641-4	706-3				
0.200	168-2	714-4	200-2	182-3	224-2	453-4	133-2	116-3	142-2	325-4	105-2	850-4	102-2	292-4	832-3	752-4	917-3	244-4	619-3	652-4	767-3				
0.220	479-3	641-4	189-2	135-3	183-2	522-4	145-2	110-3	149-2	468-4	110-2	995-4	133-2	399-4	929-3	862-4	114-2	311-4	793-3	690-4	890-3				
0.240	117-2	744-4	174-2	132-3	194-2	609-4	141-2	108-3	159-2	578-4	131-2	102-3	151-2	512-4	118-2	916-4	134-2	415-4	989-3	756-4	108-2				
0.260	837-3	992-4	222-2	150-3	239-2	836-4	197-2	127-3	202-2	772-4	183-2	116-3	186-2	678-4	158-2	103-3	163-2	547-4	133-2	923-4	151-2				
0.280	299-2	187-3	385-2	244-3	420-2	117-3	279-2	154-3	264-2	104-3	240-2	136-3	234-2	890-4	192-2	115-3	199-2	674-4	134-2	923-4	151-2				
0.300	448-2	274-3	550-2	312-3	575-2	159-3	321-2	181-3	333-2	131-3	267-2	151-3	275-2	107-3	205-2	126-3	226-2	802-4	143-2	975-4	169-2				
0.320	267-2	283-3	512-2	282-3	555-2	202-3	360-2	201-3	397-2	157-3	270-2	157-3	309-2	125-3	206-2	126-3	245-2	907-4	135-2	969-4	178-2				
0.340	309-2	362-3	644-2	320-3	670-2	238-3	425-2	211-3	440-2	187-3	322-2	168-3	347-2	136-3	220-2	123-3	252-2	968-4	143-2	935-4	179-2				
0.360	451-2	476-3	818-2	375-3	830-2	260-3	433-2	204-3	453-2	210-3	334-2	165-3	366-2	154-3	237-2	124-3	270-2	103-3	159-2	896-4	180-2				
0.380	102-1	632-3	103-1	447-3	104-1	265-3	428-2	187-3	438-2	219-3	320-2	154-3	362-2	164-3	230-2	119-3	271-2	107-3	164-2	834-4	177-2				
0.400	480-2	381-3	565-2	244-3	599-2	260-3	399-2	165-3	408-2	217-3	314-2	139-3	342-2	167-3	243-2	109-3	262-2	123-3	169-2	822-4	193-2				
0.420	315-2	365-3	498-2	242-3	547-2	249-3	353-2	144-3	373-2	210-3	303-2	123-3	315-2	171-3	237-2	100-3	257-2	140-3	169-2	851-4	210-2				
0.440	545-2	663-3	893-2	350-3	948-2	325-3	530-2	215-3	579-2	295-3	358-2	157-3	421-2	220-3	252-2	118-3	314-2	159-3	173-2	883-4	227-2				
0.460	145-1	127-2	165-1	615-3	173-1	597-3	760-2	287-3	815-2	392-3	485-2	191-3	535-2	267-3	313-2	131-3	363-2	179-3	185-2	909-4	244-2				
0.480	164-1	139-2	181-1	620-3	183-1	740-3	884-2	328-3	969-2	447-3	530-2	199-3	585-2	298-3	350-2	134-3	390-2	198-3	205-2	929-4	259-2				
0.500	193-1	156-2	194-1	639-3	196-1	715-3	856-2	292-3	899-2	491-3	550-2	201-3	618-2	331-3	363-2	137-3	416-2	215-3	218-2	928-4	271-2				
0.550	104-1	963-3	109-1	325-3	110-1	557-3	646-2	188-3	637-2	436-3	496-2	149-3	354-2	360-3	354-2	124-3	412-2	243-3	232-2	877-4	278-2				
0.600	100-1	131-2	134-1	374-3	138-1	864-3	859-2	246-3	904-2	568-3	559-2	161-3	595-2	377-3	359-2	109-3	394-2	250-3	225-2	760-4	262-2				
0.650	593-2	624-3	595-2	151-3	603-2	463-3	490-2	112-3	447-2	412-3	439-2	100-3	399-2	318-3	332-2	784-4	307-2	241-3	225-2	626-4	233-2				
0.700	497-2	648-3	587-2	135-3	582-2	462-3	426-2	966-4	415-2	344-3	333-2	721-4	309-2	276-3	277-2	590-4	248-2	233-3	217-2	524-4	209-2				

111U306 55.002.0 BANK OF AMERICA BUILDING, 13TH FL., SAN JOSE, CAL. COMP N59E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
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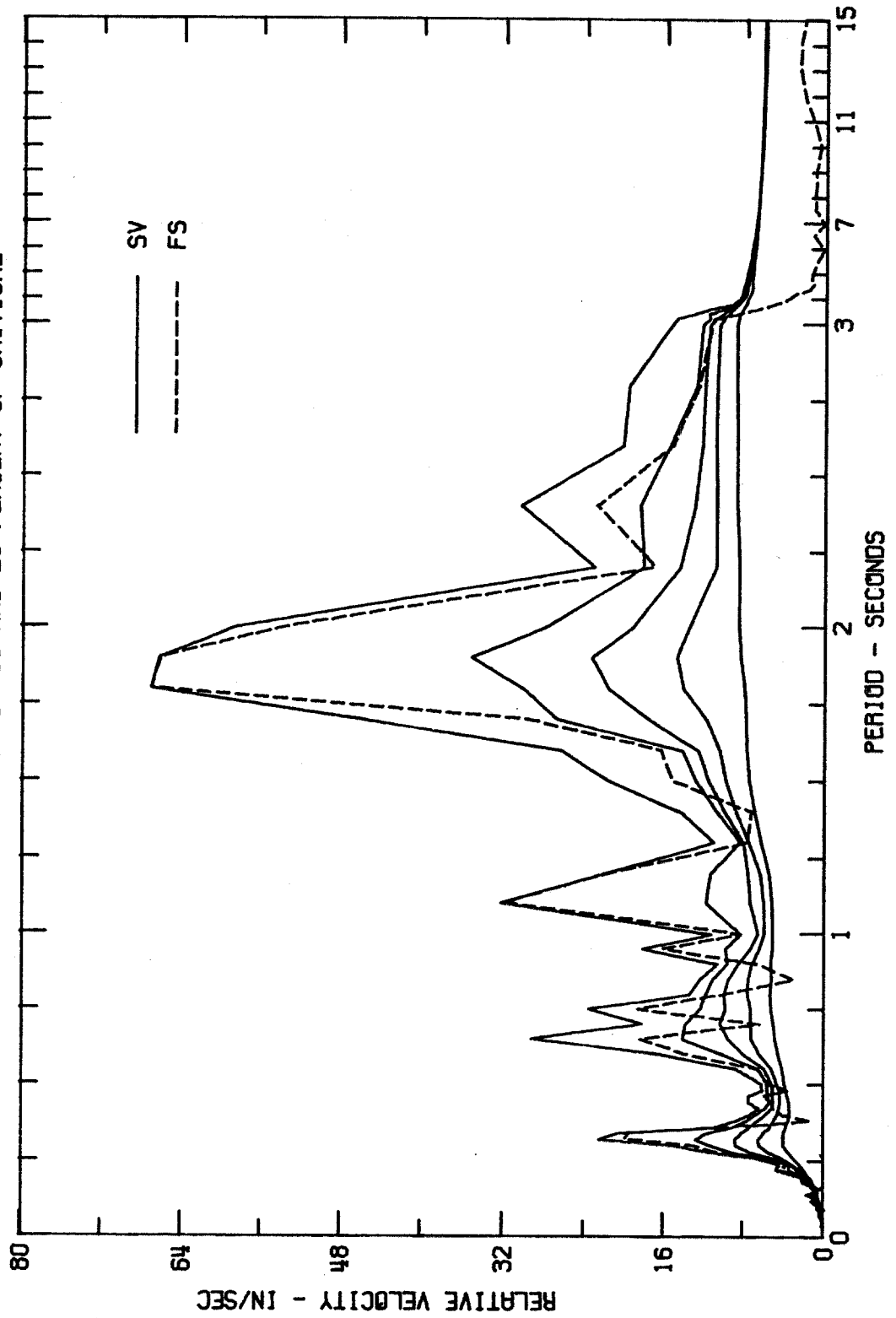
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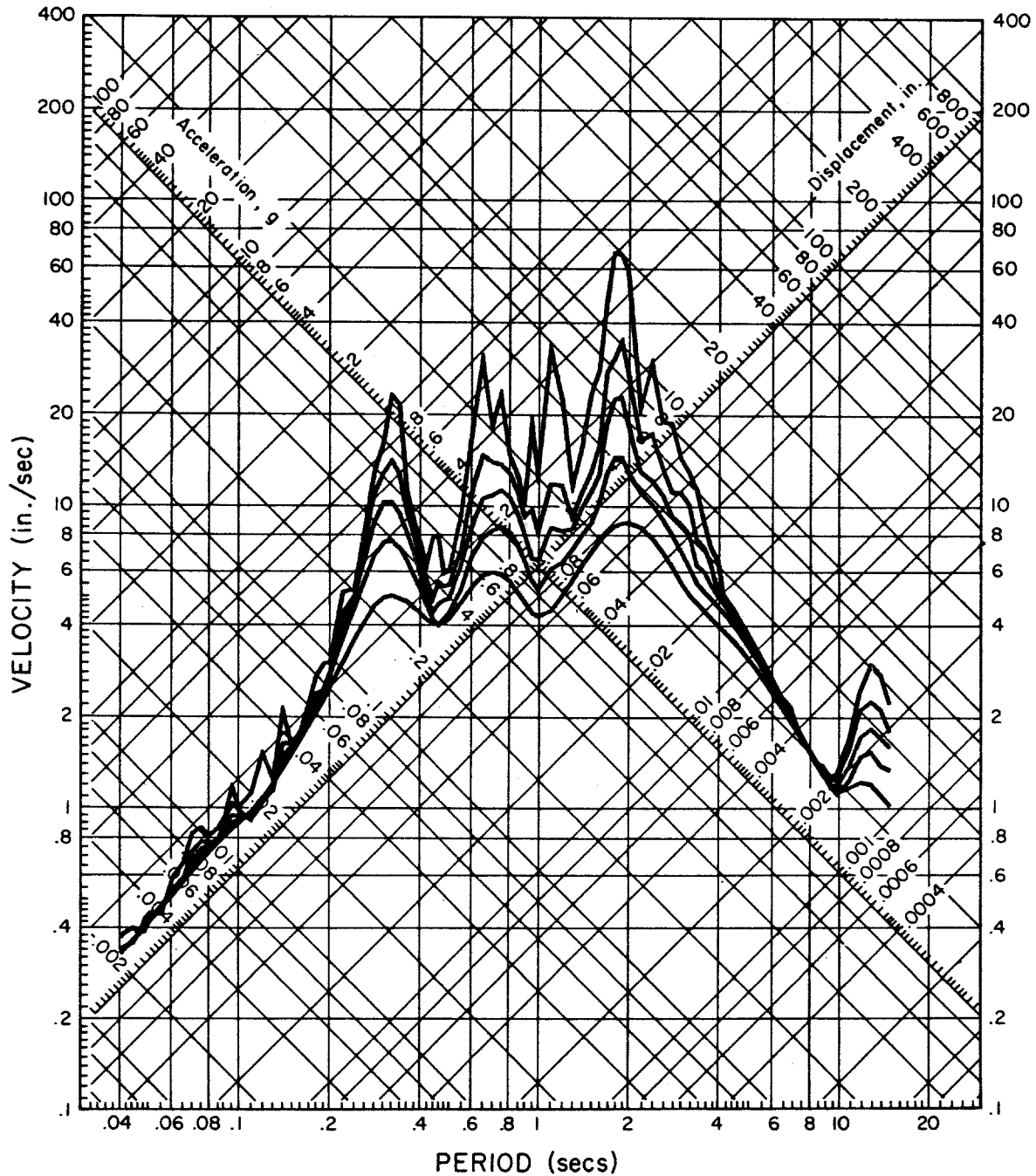


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WEST CENTRAL CALIFORNIA EARTHQUAKE SEPT 4, 1955 - 1801 PST

IIU306 55-002.0 BANK OF AMERICA BUILDING, 13TH FL., SAN JOSE, CAL. COMP N31W

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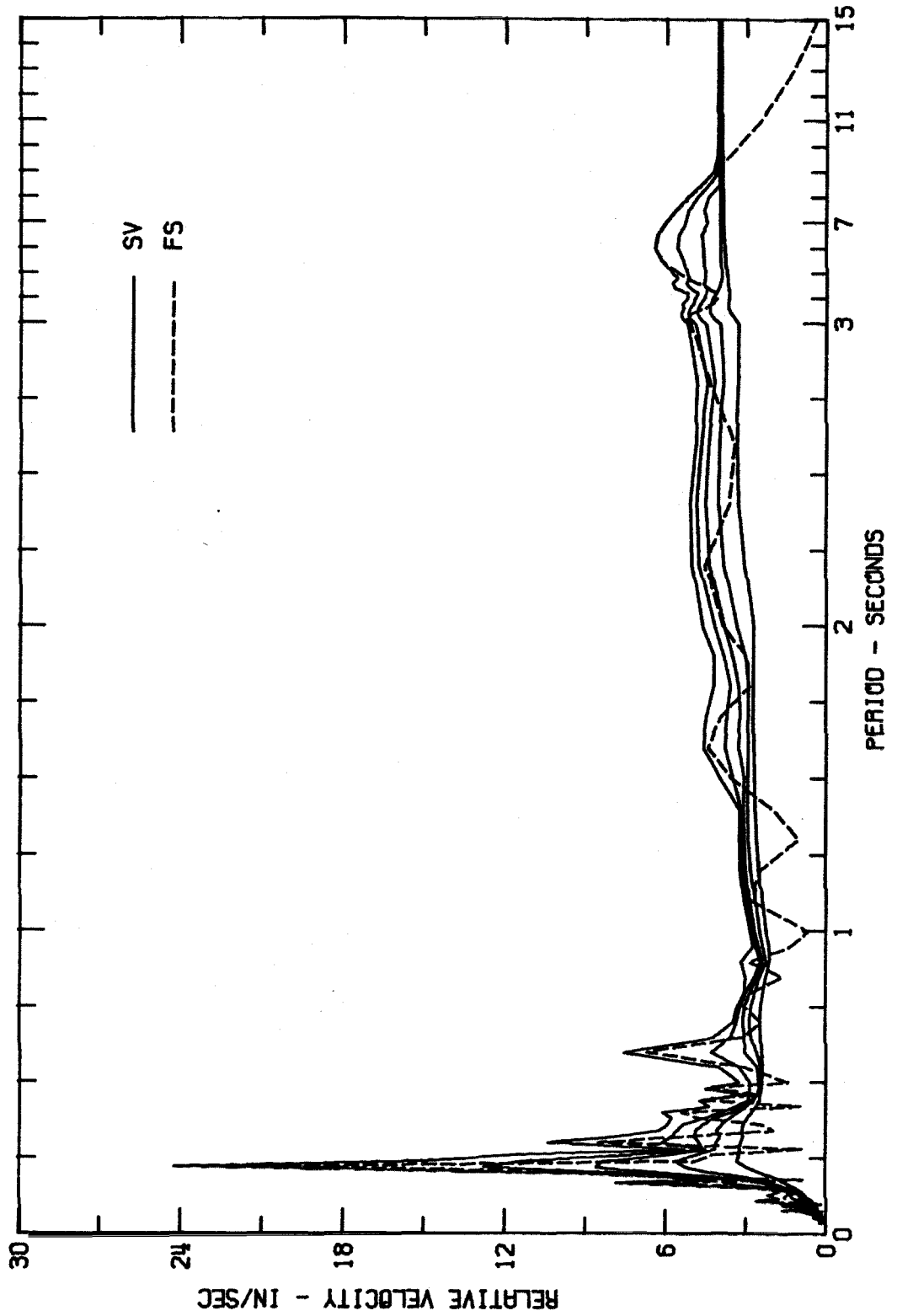
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0.460	612-2	576-3	749-2	278-3	787-2	404-3	558-2	195-3	552-2	340-3	507-2	164-3	465-2	287-3	432-2	143-3	393-2	290-3	366-2	148-3	393-2	290-3	366-2	148-3	393-2
0.480	362-2	448-3	608-2	199-3	587-2	401-3	563-2	181-3	533-2	365-3	505-2	161-3	477-2	317-3	445-2	143-3	415-2	306-3	381-2	143-3	415-2	306-3	381-2	143-3	415-2
0.500	553-2	476-3	619-2	195-3	599-2	427-3	564-2	175-3	537-2	385-3	513-2	157-3	484-2	345-3	469-2	143-3	434-2	328-3	395-2	141-3	434-2	328-3	395-2	141-3	434-2
0.520	666-2	805-3	884-2	272-3	920-2	617-3	648-2	209-3	705-2	545-3	597-2	185-3	627-2	456-3	527-2	156-3	521-2	412-3	463-2	154-3	521-2	412-3	463-2	154-3	521-2
0.540	139-1	163-2	264-1	464-3	171-1	105-2	101-1	300-3	110-1	812-3	802-2	232-3	850-2	646-3	646-2	186-3	677-2	510-3	430-2	154-3	677-2	510-3	430-2	154-3	677-2
0.560	184-1	309-2	293-1	749-3	299-1	150-2	141-1	364-3	145-1	108-2	952-2	264-3	104-1	804-3	720-2	198-3	777-2	598-3	490-2	155-3	777-2	598-3	490-2	155-3	777-2
0.580	700	634-2	201-2	181-1	420-3	180-1	153-2	321-3	138-1	119-2	103-1	250-3	107-1	912-3	735-2	194-3	819-2	562-3	507-2	148-3	819-2	562-3	507-2	148-3	819-2

IIITJ306 55.002.0 BANK OF AMERICA BUILDING, 13TH FL., SAN JOSE, CAL. COMP N31W

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT			DAMPING = 2 PER CENT			DAMPING = 5 PER CENT			DAMPING = 10 PER CENT			DAMPING = 20 PER CENT		
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0.80	101-1	184-2	133-1	295-3	145-1	161-2	118-1	258-3	127-1	134-2	992-2	216-3	103-1	103-2
0.85	299-2	168-2	123-1	238-3	124-1	149-2	110-1	211-3	110-1	126-2	948-2	179-3	931-2	993-3
0.90	660-2	146-2	106-1	185-3	102-1	130-2	964-2	164-3	912-2	112-2	852-2	142-3	784-2	921-3
0.95	161-1	280-2	182-1	317-3	185-1	145-2	977-2	165-3	964-2	100-2	732-2	114-3	663-2	841-3
1.00	827-2	199-2	111-1	204-3	125-1	128-2	827-2	131-3	806-2	103-2	656-2	106-3	632-2	827-3
1.10	320-1	570-2	323-1	482-3	325-1	205-2	118-1	173-3	117-1	147-2	743-2	124-3	839-2	107-2
1.20	215-1	423-2	219-1	300-3	221-1	221-2	113-1	157-3	115-1	156-2	762-2	111-3	818-2	122-2
1.30	764-2	236-2	110-1	143-3	114-1	186-2	839-2	113-3	903-2	172-2	812-2	104-3	831-2	148-2
1.40	726-2	349-2	144-1	182-3	156-1	247-2	107-1	129-3	111-1	218-2	997-2	114-3	980-2	178-2
1.50	152-1	553-2	217-1	251-3	231-1	307-2	129-1	139-3	128-1	264-2	116-1	120-3	110-1	208-2
1.60	163-1	709-2	264-1	283-3	278-1	402-2	142-1	160-3	158-1	323-2	126-1	129-3	127-1	260-2
1.70	299-1	127-1	464-1	450-3	470-1	743-2	268-1	263-3	274-1	506-2	176-1	179-3	187-1	345-2
1.80	671-1	192-1	671-1	607-3	672-1	875-2	302-1	276-3	305-1	639-2	217-1	202-3	223-1	411-2
1.90	661-1	200-1	662-1	566-3	661-1	104-1	352-1	296-3	345-1	582-2	233-1	194-3	225-1	433-2
2.00	537-1	185-1	586-1	144-3	582-1	862-2	279-1	220-3	270-1	593-2	193-1	150-3	183-1	405-2
2.20	169-1	727-2	230-1	153-3	207-1	569-2	182-1	120-3	162-1	449-2	144-1	954-4	128-1	384-2
2.40	229-1	112-1	304-1	199-3	294-1	655-2	186-1	116-3	171-1	458-2	130-1	818-4	120-1	382-2
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2.80	126-1	828-2	196-1	108-3	185-1	489-2	128-1	639-4	109-1	407-2	120-1	534-4	913-2	352-2
3.00	113-1	680-2	153-1	773-4	142-1	522-2	122-1	594-4	109-1	414-2	115-1	475-4	867-2	332-2
3.20	111-1	651-2	149-1	650-4	127-1	509-2	116-1	509-4	100-1	408-2	109-1	410-4	802-2	314-2
3.40	887-2	606-2	131-1	536-4	112-1	415-2	101-1	367-4	767-2	339-2	103-1	302-4	627-2	295-2
3.60	687-2	505-2	116-1	399-4	882-2	413-2	101-1	328-4	720-2	343-2	965-2	272-4	598-2	292-2
3.80	535-2	436-2	929-2	309-4	721-2	381-2	920-2	270-4	630-2	323-2	904-2	231-4	535-2	292-2
4.00	384-2	414-2	861-2	265-4	651-2	330-2	857-2	211-4	518-2	315-2	848-2	204-4	495-2	292-2
4.20	317-2	334-2	838-2	193-4	499-2	324-2	829-2	188-4	485-2	311-2	815-2	183-4	465-2	289-2
4.40	169-2	326-2	824-2	172-4	465-2	317-2	816-2	168-4	453-2	305-2	804-2	165-4	436-2	286-2
4.60	124-2	317-2	811-2	153-4	434-2	310-2	804-2	150-4	423-2	299-2	794-2	148-4	409-2	282-2
4.80	152-2	309-2	798-2	137-4	404-2	302-2	792-2	135-4	396-2	293-2	783-2	133-4	383-2	277-2
5.00	140-2	300-2	786-2	122-4	377-2	294-2	781-2	121-4	370-2	286-2	773-2	120-4	359-2	272-2
5.50	992-3	278-2	759-2	941-5	318-2	274-2	756-2	938-5	313-2	269-2	750-2	947-5	307-2	259-2
6.00	229-3	258-2	736-2	734-5	270-2	256-2	734-2	734-5	268-2	252-2	731-2	753-5	264-2	245-2
6.50	128-2	240-2	717-2	582-5	232-2	239-2	716-2	586-5	231-2	237-2	714-2	609-5	229-2	233-2
7.00	233-3	239-2	701-2	500-5	215-2	224-2	700-2	475-5	201-2	223-2	699-2	500-5	200-2	221-2
7.50	112-2	210-2	687-2	383-5	176-2	211-2	687-2	390-5	176-2	211-2	687-2	417-5	176-2	210-2
8.00	118-2	198-2	675-2	317-5	156-2	199-2	676-2	325-5	156-2	200-2	676-2	351-5	157-2	200-2
8.50	111-2	188-2	665-2	267-5	139-2	189-2	666-2	274-5	140-2	190-2	667-2	300-5	141-2	192-2
9.00	108-2	196-2	657-2	246-5	137-2	182-2	658-2	237-5	127-2	182-2	659-2	260-5	127-2	184-2
9.50	896-3	188-2	649-2	213-5	124-2	185-2	650-2	216-5	122-2	180-2	652-2	229-5	119-2	177-2
10.00	572-3	206-2	643-2	210-5	129-2	197-2	644-2	202-5	123-2	185-2	646-2	211-5	116-2	175-2
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12.00	229-2	465-2	624-2	330-5	243-2	398-2	625-2	283-5	208-2	324-2	627-2	246-5	170-2	279-2
13.00	274-2	607-2	617-2	367-5	293-2	460-2	619-2	279-5	222-2	374-2	621-2	245-5	180-2	314-2
14.00	268-2	605-2	612-2	315-5	271-2	466-2	614-2	243-5	209-2	377-2	616-2	208-5	169-2	305-2
15.00	221-2	527-2	608-2	239-5	220-2	423-2	609-2	195-5	177-2	376-2	611-2	185-5	157-2	316-2

RELATIVE VELOCITY RESPONSE SPECTRUM
WEST CENTRAL CALIFORNIA EARTHQUAKE SEPT 4, 1955 - 1801 PST
111U306 55.002.0 BANK OF AMERICA BUILDING, 13TH FL., SAN JOSE, CAL. COMP UP
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

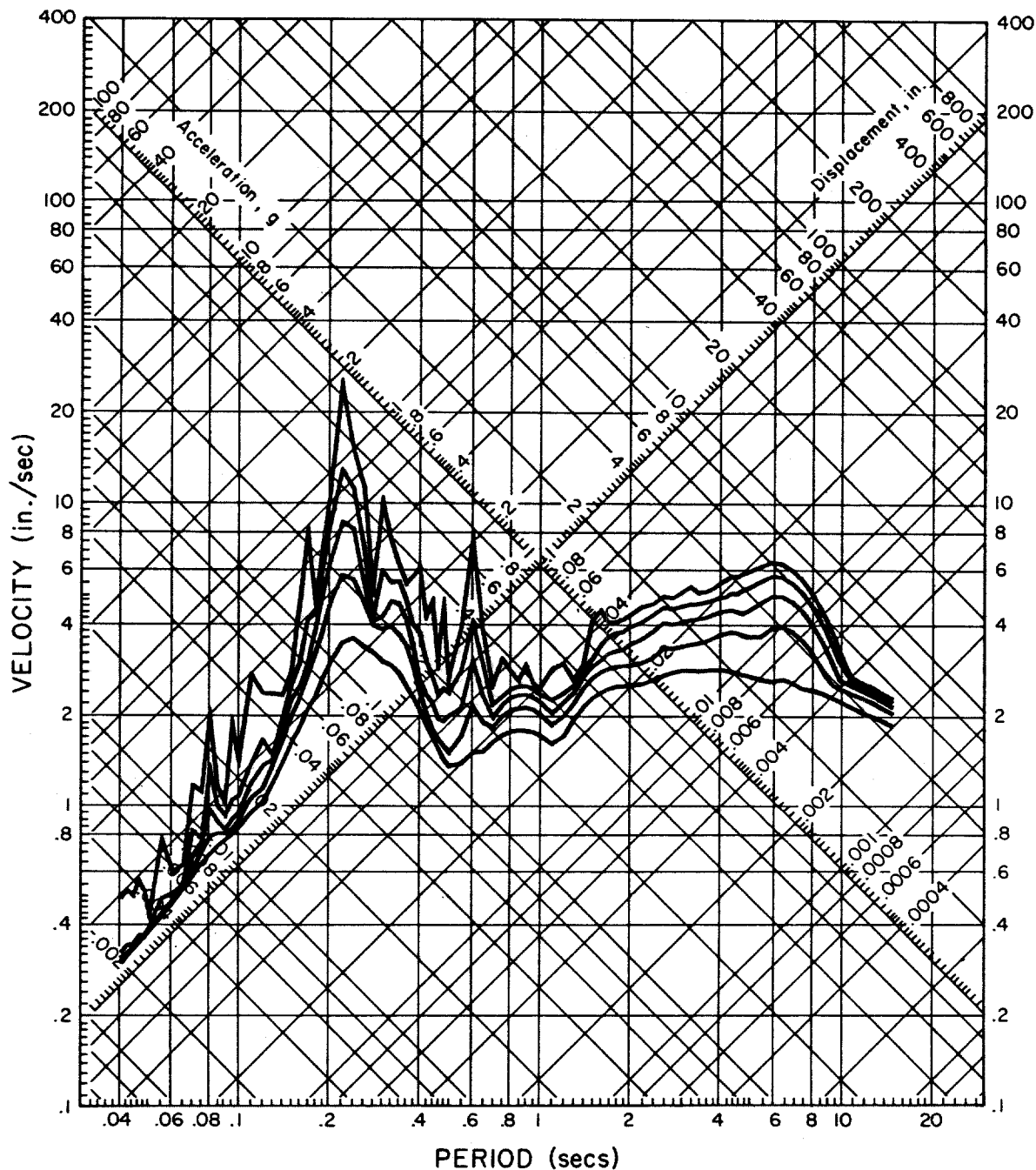


RESPONSE SPECTRUM

WEST CENTRAL CALIFORNIA EARTHQUAKE SEPT 4, 1955 - 1801 PST

111U306 55.002.0 BANK OF AMERICA BUILDING, 13TH FL., SAN JOSE, CAL. COMP UP

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



WEST CENTRAL CALIFORNIA EARTHQUAKE SEPT 4, 1955 - 1801 PST

IIIU306 55-002.0 BANK OF AMERICA BUILDING, 13TH FL., SAN JOSE, CAL. COMP UP

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

	DAMPING = 0 PER CENT						DAMPING = 2 PER CENT						DAMPING = 5 PER CENT						DAMPING = 10 PER CENT						DAMPING = 20 PER CENT							
PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	
0.040	200-3	311-5	233-3	199-3	489-3	204-5	174-3	131-3	321-3	193-5	156-3	123-3	303-3	190-5	131-3	121-3	298-3	188-5	105-3	120-3	296-											
0.042	186-3	344-5	256-3	199-3	515-3	227-5	178-3	132-3	341-3	214-5	160-3	124-3	320-3	210-5	136-3	122-3	315-3	209-5	110-3	121-3	313-											
0.044	155-3	346-5	227-3	182-3	494-3	239-5	190-3	126-3	341-3	232-5	170-3	122-3	332-3	232-5	142-3	122-3	331-3	230-5	114-3	122-3	329-											
0.046	825-4	407-5	277-3	197-3	557-3	268-5	200-3	130-3	367-3	254-5	180-3	122-3	347-3	254-5	152-3	122-3	347-3	253-5	117-3	122-3	346-											
0.048	816-4	391-5	258-3	173-3	512-3	278-5	205-3	123-3	364-3	275-5	185-3	122-3	360-3	277-5	157-3	123-3	363-3	277-5	121-3	122-3	363-											
0.050	218-3	338-5	251-3	138-3	424-3	312-5	218-3	127-3	392-3	305-5	196-3	125-3	383-3	303-5	165-3	124-3	381-3	302-5	126-3	124-3	380-											
0.055	319-3	668-5	500-3	226-3	764-3	425-5	276-3	143-3	486-3	379-5	213-3	128-3	434-3	375-5	179-3	126-3	428-3	371-5	136-3	126-3	424-											
0.060	133-3	564-5	325-3	160-3	590-3	479-5	261-3	136-3	502-3	461-5	237-3	131-3	483-3	455-5	202-3	129-3	476-3	450-5	150-3	128-3	471-											
0.065	280-3	649-5	436-3	157-3	627-3	559-5	290-3	135-3	540-3	567-5	263-3	137-3	548-3	552-5	224-3	134-3	534-3	540-5	172-3	131-3	522-											
0.070	686-3	129-4	762-3	270-3	116-2	910-5	494-3	190-3	817-3	754-5	383-3	157-3	677-3	683-5	283-3	144-3	613-3	643-5	206-3	136-3	577-											
0.075	147-3	131-4	960-3	239-3	110-2	915-5	643-3	165-3	766-3	897-5	446-3	162-3	752-3	832-5	327-3	152-3	697-3	760-5	249-3	139-3	636-											
0.080	126-2	252-4	169-2	403-3	198-2	132-4	682-3	188-3	982-3	118-4	530-3	168-3	958-3	986-5	380-3	160-3	782-3	872-5	287-3	141-3	685-											
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0.090	769-3	144-4	804-3	182-3	100-2	130-4	688-3	165-3	912-3	118-4	582-3	150-3	826-3	114-4	462-3	145-3	800-3	109-4	342-3	140-3	763-											
0.095	130-2	284-4	166-2	322-3	188-2	157-4	782-3	177-3	104-2	134-4	617-3	153-3	891-3	125-4	506-3	143-3	828-3	120-4	390-3	138-3	794-											
0.100	178-3	222-4	104-2	227-3	140-2	170-4	676-3	173-3	107-2	149-4	538-3	154-3	938-3	125-4	530-3	144-3	884-3	134-4	439-3	138-3	842-											
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0.140	864-3	519-4	171-2	271-3	233-2	433-4	142-2	225-3	194-2	395-4	163-2	243-3	224-2	363-4	116-2	192-3	162-2	310-4	948-3	167-3	139-											
0.150	171-2	666-4	217-2	303-3	279-2	599-4	184-2	271-3	251-2	537-4	163-2	243-3	224-2	363-4	116-2	192-3	162-2	310-4	948-3	167-3	139-											
0.160	378-2	120-3	440-2	481-3	473-2	760-4	262-2	303-3	298-2	640-4	186-2	258-3	251-2	586-4	167-2	236-3	230-2	369-4	132-2	185-3	162-											
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0.180	842-3	134-3	412-2	423-3	468-2	123-3	369-2	389-3	431-2	109-3	318-2	349-3	383-2	919-4	253-2	293-3	321-2	659-4	179-2	219-3	230-											
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0.360	239-2	311-3	593-2	245-3	543-2	273-3	534-2	215-3	476-2	236-3	464-2	189-3	412-2	194-3	390-2	156-3	339-2	143-3	309-2	126-3	250-											
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IIU306 55.002.0 BANK OF AMERICA BUILDING, 13TH FL., SAN JOSE, CAL. COMP UP

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

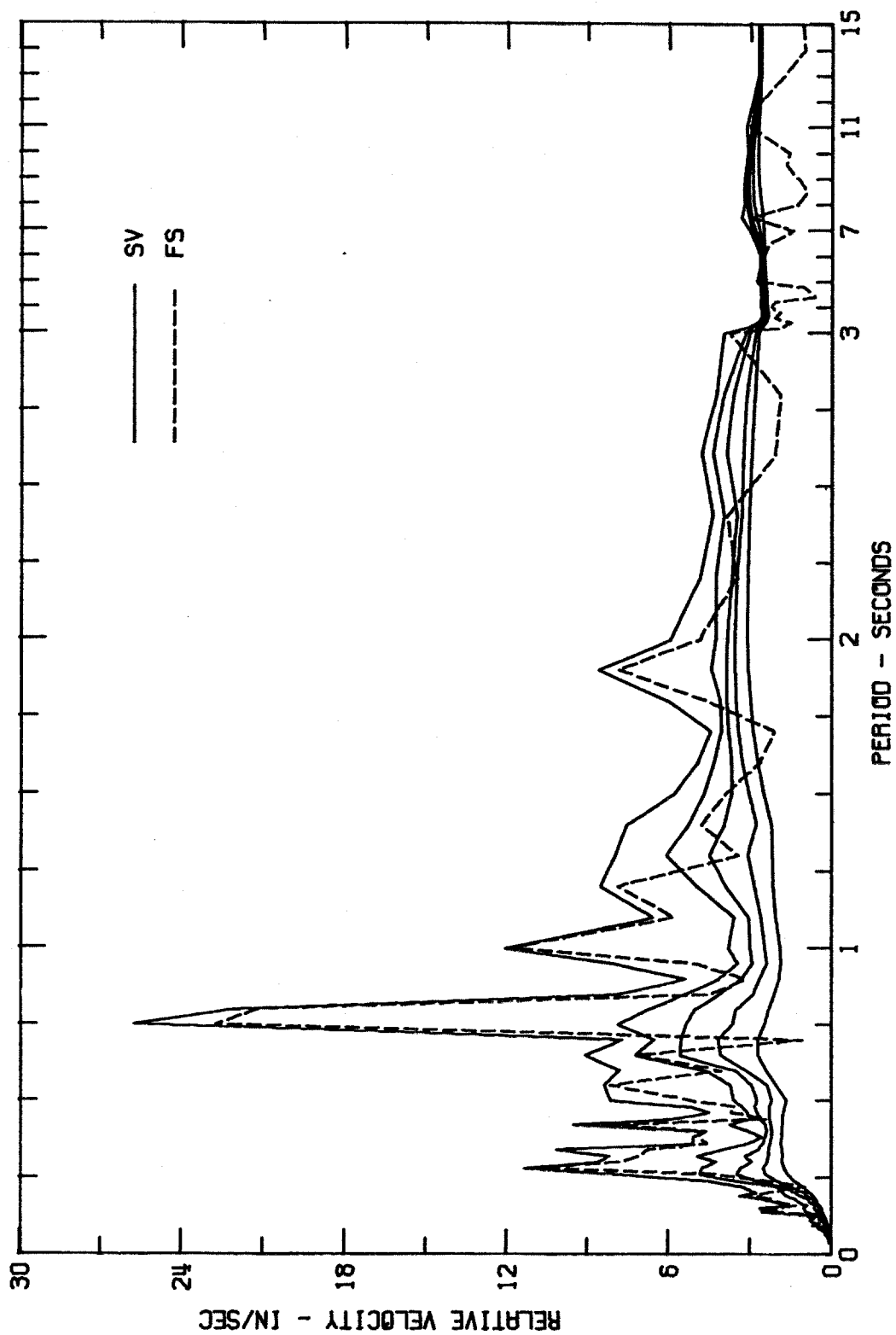
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RELATIVE VELOCITY RESPONSE SPECTRUM

CENTRAL CALIFORNIA EARTHQUAKE JAN 19, 1960 - 1926 PST

111U307 60.001.0 PUBLIC LIBRARY, HOLLISTER, CALIFORNIA COMP N89W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

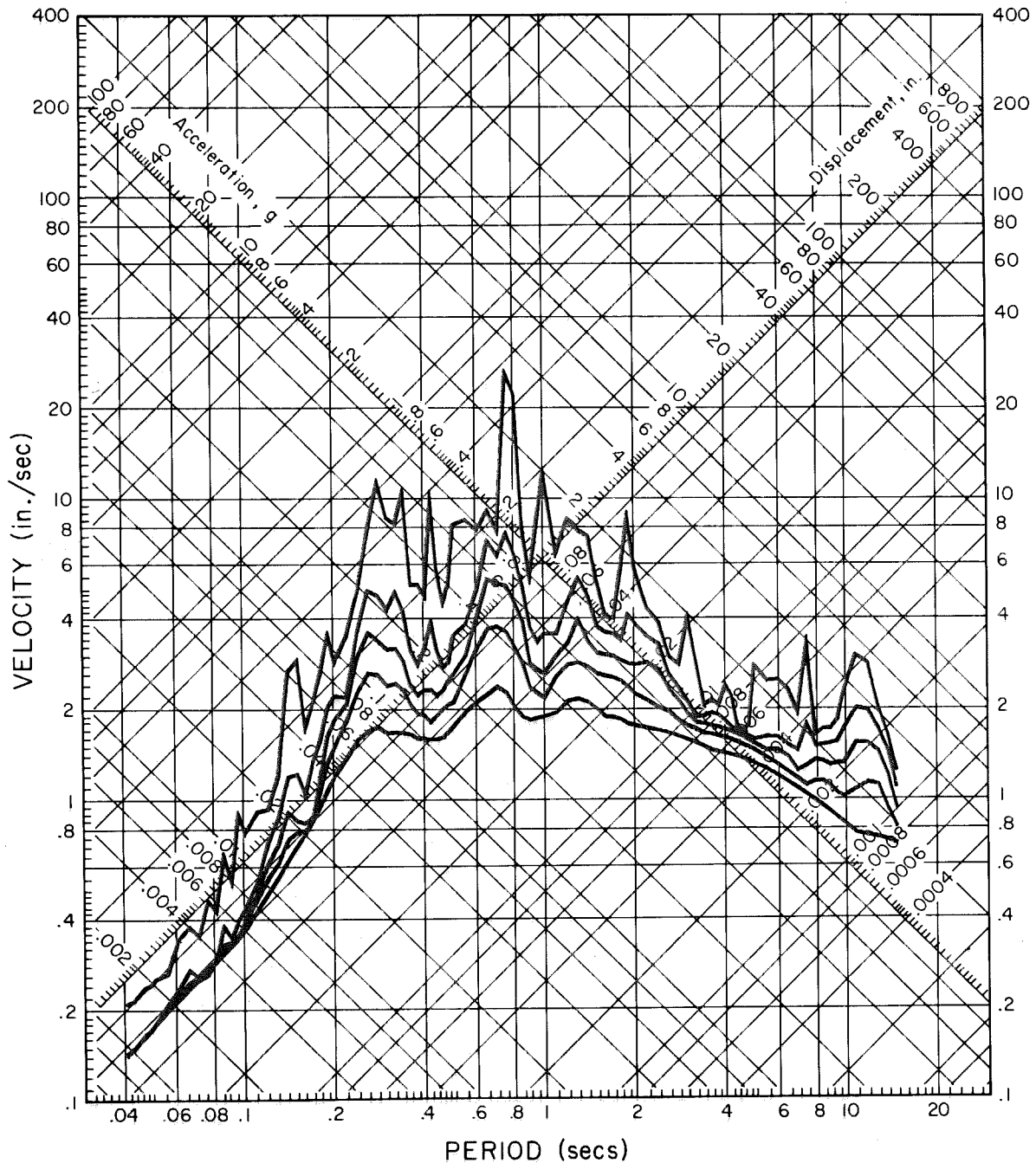


RESPONSE SPECTRUM

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CENTRAL CALIFORNIA EARTHQUAKE JAN 19, 1960 - 1926 PST

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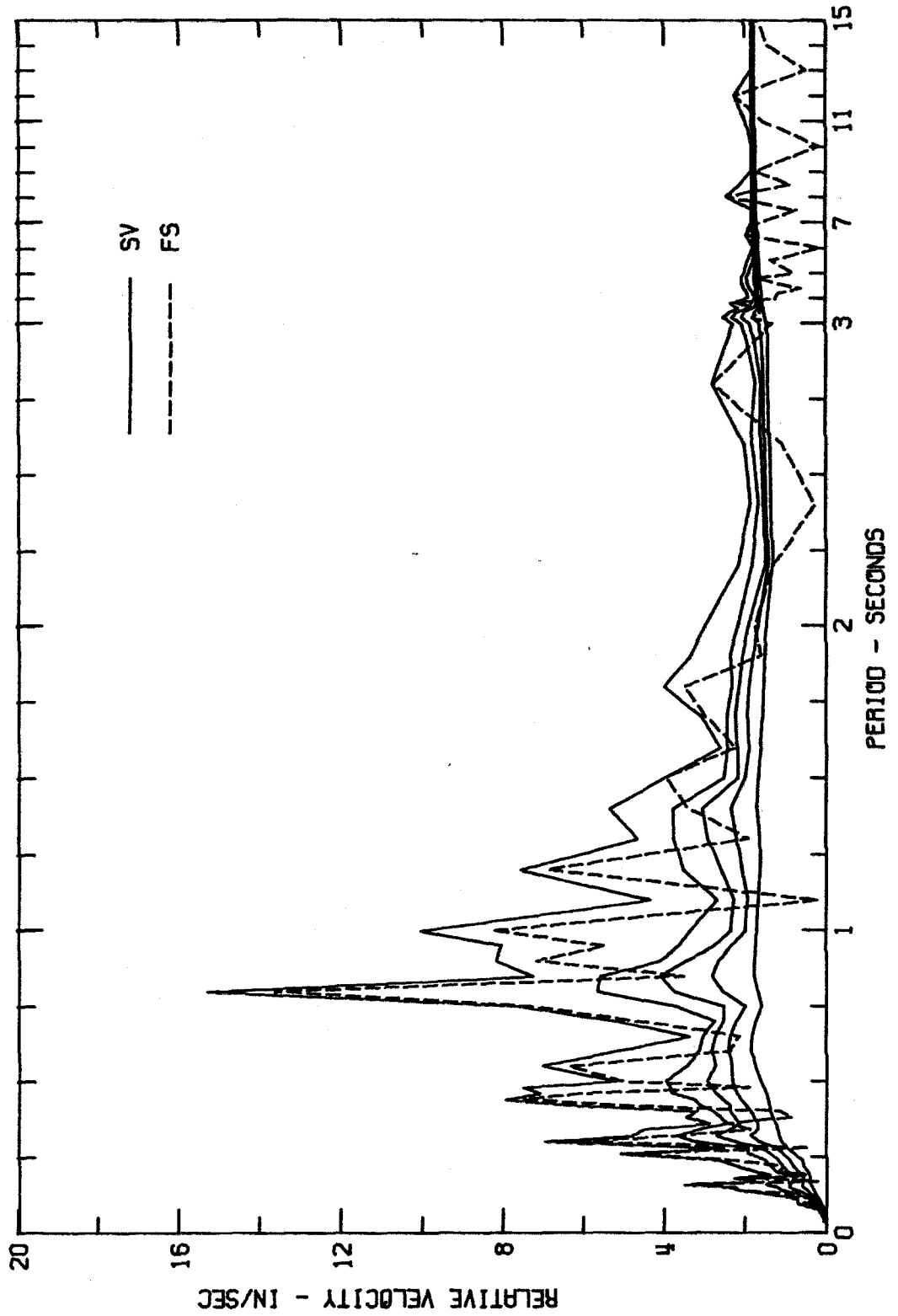
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0.400	461-2	301-3	467-2	192-3	473-2	202-3	304-2	129-3	317-2	147-3	237-2	950-4	231-2	120-3	221-2	783-4	189-2	101-3	183-2	692-4	159-2
0.420	828-2	652-3	955-2	378-3	975-2	260-3	375-2	150-3	389-2	154-3	243-2	902-2	231-2	120-3	224-2	715-4	180-2	105-3	181-2	668-4	158-2
0.440	238-2	400-3	587-2	211-3	571-2	219-3	297-2	115-3	312-2	154-3	259-2	817-4	220-2	133-3	229-2	716-4	190-2	110-3	181-2	648-4	158-2
0.460	371-2	329-3	448-2	159-3	449-2	200-3	309-2	969-4	273-2	168-3	273-2	820-4	230-2	146-3	230-2	723-4	200-2	117-3	178-2	626-4	160-2
0.480	556-2	397-3	519-2	176-3	520-2	217-3	329-2	971-4	284-2	190-3	283-2	859-4	248-2	157-3	229-2	729-4	206-2	128-3	172-2	616-4	167-2
0.500	313-2	653-3	816-2	267-3	821-2	280-3	362-2	115-3	351-2	209-3	273-2	856-4	263-2	167-3	219-2	708-4	210-2	140-3	167-2	617-4	176-2
0.520	518-2	743-3	837-2	251-3	849-2	335-3	373-2	113-3	383-2	264-3	296-2	898-4	302-2	229-3	239-2	794-4	262-2	172-3	204-2	632-4	196-2
0.540	818-2	743-3	837-2	251-3	849-2	335-3	373-2	113-3	383-2	264-3	296-2	898-4	302-2	229-3	239-2	794-4	262-2	172-3	204-2	632-4	196-2
0.560	405-2	748-3	780-2	212-3	783-2	477-3	465-2	136-3	500-2	386-3	355-2	110-3	404-2	303-3	317-2	884-4	319-2	201-3	242-2	623-4	211-2
0.580	719-2	945-3	909-2	228-3	914-2	748-3	723-2	181-3	723-2	558-3	559-2	135-3	540-2	382-3	408-2	943-4	369-2	231-3	270-2	601-4	223-2
0.600	109-2	867-3	770-2	181-3	778-2	718-3	645-2	150-3	645-2	578-3	554-2	121-3	519-2	411-3	417-3	892-4	375-2	263-3	272-2	602-4	236-2

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.75	227-1	312-2	258-1	567-3	261-1	912-3	791-2	165-3	764-2	613-3	535-2	111-3	513-2	429-3	365-2	803-4	359-2
0.80	211-1	282-2	221-1	451-3	222-1	821-3	678-2	131-3	645-2	571-3	506-2	920-4	448-2	404-3	353-2	665-4	318-2
0.85	448-2	105-2	790-2	149-3	781-2	815-3	541-2	970-4	506-2	522-3	411-2	742-4	386-2	381-3	290-2	555-4	281-2
0.90	314-2	779-3	535-2	984-4	544-2	532-3	414-2	672-4	371-2	404-3	330-2	512-4	282-2	335-3	264-2	436-4	234-2
0.95	506-2	124-2	810-2	141-3	824-2	502-3	347-2	571-4	332-2	407-3	292-2	465-4	269-2	341-3	238-2	401-4	226-2
1.00	118-1	192-2	121-1	197-3	121-1	564-3	378-2	578-4	354-2	415-3	300-2	426-4	260-2	345-3	246-2	363-4	217-2
1.10	577-2	114-2	655-2	968-4	654-2	623-3	358-2	526-4	451-2	630-3	391-2	450-4	329-2	535-3	287-2	395-4	280-2
1.20	791-2	163-2	853-2	116-3	857-2	862-3	495-2	614-4	451-2	630-3	391-2	450-4	329-2	535-3	287-2	395-4	280-2
1.30	344-2	162-2	797-2	984-4	785-2	112-2	609-2	682-4	544-2	818-3	451-2	499-4	395-2	587-3	310-2	372-4	284-2
1.40	481-2	167-2	754-2	871-4	749-2	104-2	526-2	547-4	470-2	742-3	395-2	391-4	333-2	614-3	276-2	336-4	275-2
1.50	388-2	125-2	578-2	570-4	525-2	893-3	470-2	406-4	374-2	731-3	367-2	333-4	306-2	625-3	307-2	294-4	262-2
1.60	265-2	102-2	492-2	410-4	403-2	913-3	434-2	364-4	358-2	770-3	369-2	309-4	302-2	652-3	332-2	263-4	256-2
1.70	211-2	107-2	444-2	381-4	398-2	960-3	407-2	340-4	354-2	810-3	383-2	288-4	299-2	686-3	347-2	248-4	253-2
1.80	466-2	166-2	605-2	526-4	582-2	967-3	411-2	305-4	337-2	829-3	389-2	263-4	289-2	708-3	356-2	230-4	247-2
1.90	788-2	261-2	861-2	740-4	864-2	124-2	445-2	352-4	411-2	854-3	389-2	244-4	282-2	717-3	359-2	210-4	237-2
2.00	488-2	185-2	591-2	475-4	584-2	121-2	426-2	311-4	382-2	891-3	384-2	230-4	280-2	713-3	358-2	190-4	224-2
2.20	350-2	150-2	485-2	318-4	430-2	121-2	427-2	258-4	347-2	996-3	368-2	213-4	284-2	747-3	348-2	169-4	213-2
2.40	386-2	147-2	440-2	262-4	386-2	125-2	397-2	222-4	327-2	102-2	348-2	183-4	268-2	770-3	332-2	146-4	201-2
2.60	207-2	123-2	481-2	186-4	297-2	107-2	439-2	162-4	258-2	952-3	388-2	145-4	230-2	810-3	324-2	127-4	195-2
2.80	189-2	124-2	425-2	163-4	280-2	104-2	397-2	136-4	234-2	948-3	362-2	125-4	212-2	814-3	314-2	112-4	182-2
3.00	379-2	191-2	398-2	217-4	401-2	100-2	317-2	114-4	210-2	916-3	300-2	105-4	191-2	839-3	279-2	100-4	175-2
3.20	193-2	143-2	311-2	143-4	281-2	954-3	294-2	956-5	187-2	916-3	270-2	932-5	180-2	868-3	262-2	922-5	170-2
3.40	151-2	111-2	274-2	982-5	205-2	102-2	262-2	907-5	189-2	963-3	251-2	863-5	177-2	896-3	247-2	827-5	165-2
3.60	212-2	123-2	259-2	971-5	214-2	110-2	256-2	878-5	193-2	100-2	252-2	810-5	175-2	942-3	246-2	781-5	164-2
3.80	194-2	123-2	260-2	877-5	204-2	115-2	257-2	819-5	190-2	104-2	254-2	759-5	173-2	982-3	247-2	730-5	162-2
4.00	224-2	152-2	261-2	975-5	239-2	116-2	258-2	745-5	182-2	108-2	255-2	711-5	170-2	102-2	249-2	690-5	160-2
4.20	215-2	146-2	262-2	851-5	219-2	115-2	259-2	676-5	173-2	111-2	256-2	660-5	167-2	105-2	250-2	653-5	157-2
4.40	637-3	121-2	262-2	643-5	173-2	118-2	260-2	631-5	169-2	114-2	257-2	624-5	163-2	108-2	251-2	617-5	154-2
4.60	813-3	124-2	263-2	600-5	169-2	121-2	261-2	590-5	165-2	117-2	258-2	586-5	160-2	111-2	252-2	584-5	151-2
4.80	109-2	134-2	263-2	598-5	176-2	123-2	261-2	553-5	161-2	119-2	258-2	551-5	156-2	113-2	253-2	553-5	148-2
5.00	277-2	220-2	277-2	903-5	277-2	125-2	262-2	519-5	158-2	121-2	259-2	518-5	153-2	115-2	254-2	524-5	145-2
5.50	248-2	217-2	265-2	735-5	248-2	141-2	263-2	480-5	161-2	121-2	260-2	453-5	145-2	120-2	256-2	459-5	137-2
6.00	249-2	238-2	266-2	678-5	250-2	153-2	264-2	437-5	161-2	139-2	261-2	411-5	146-2	124-2	257-2	408-5	130-2
6.50	230-2	238-2	282-2	578-5	230-2	157-2	274-2	381-5	151-2	143-2	263-2	352-5	138-2	127-2	258-2	361-5	123-2
7.00	145-2	215-2	304-2	450-5	193-2	162-2	295-2	338-5	145-2	138-2	284-2	303-5	124-2	130-2	267-2	324-5	117-2
7.50	301-2	392-2	333-2	713-5	328-2	212-2	308-2	386-5	177-2	154-2	297-2	287-5	129-2	132-2	280-2	292-5	111-2
8.00	128-2	208-2	323-2	332-5	163-2	191-2	315-2	307-5	150-2	172-2	304-2	285-5	135-2	146-2	288-2	264-5	115-2
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9.00	124-2	246-2	321-2	311-5	172-2	219-2	315-2	278-5	153-2	186-2	307-2	244-5	130-2	158-2	293-2	231-5	110-2
9.50	169-2	278-2	317-2	316-5	184-2	235-2	312-2	268-5	155-2	199-2	304-2	234-5	132-2	158-2	293-2	210-5	104-2
10.00	158-2	363-2	311-2	372-5	228-2	275-2	307-2	282-5	172-2	210-2	301-2	218-5	132-2	162-2	291-2	188-5	102-2
11.00	301-2	527-2	317-2	446-5	301-2	353-2	295-2	299-5	202-2	271-2	291-2	233-5	154-2	189-2	284-2	172-5	108-2
12.00	263-2	541-2	293-2	384-5	283-2	377-2	282-2	268-5	197-2	294-2	279-2	212-5	154-2	217-2	275-2	163-5	113-2
13.00	177-2	419-2	270-2	253-5	202-2	353-2	269-2	215-5	171-2	299-2	268-2	187-5	144-2	231-2	265-2	156-5	111-2
14.00	100-2	364-2	270-2	190-5	163-2	321-2	269-2	168-5	144-2	269-2	268-2	143-5	120-2	208-2	265-2	123-5	935-3
15.00	109-2	297-2	270-2	135-5	124-2	261-2	269-2	119-5	109-2	223-2	268-2	103-5	936-3	193-2	266-2	105-5	810-3

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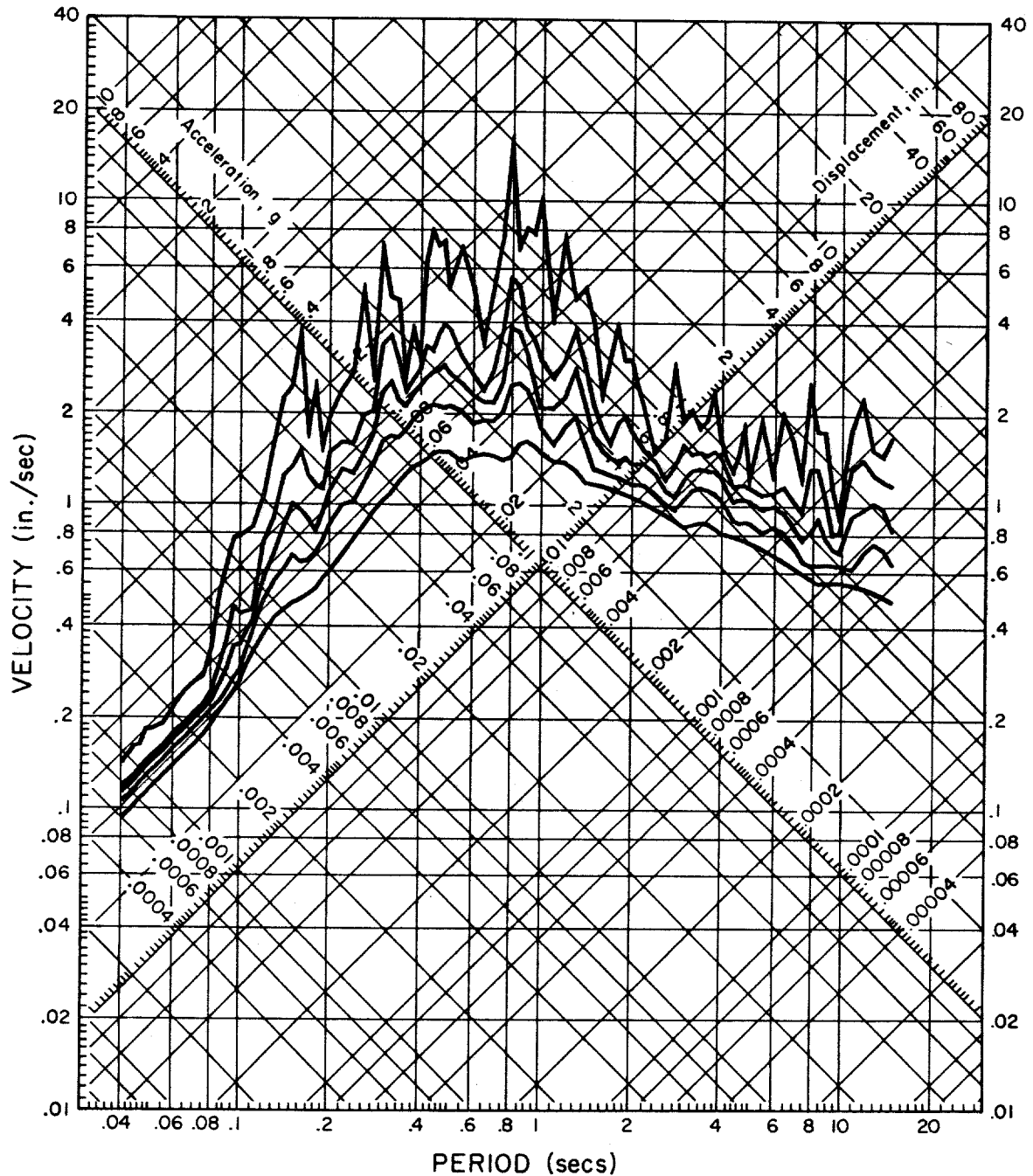


RESPONSE SPECTRUM

CENTRAL CALIFORNIA EARTHQUAKE JAN 19, 1960 - 1926 PST

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DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



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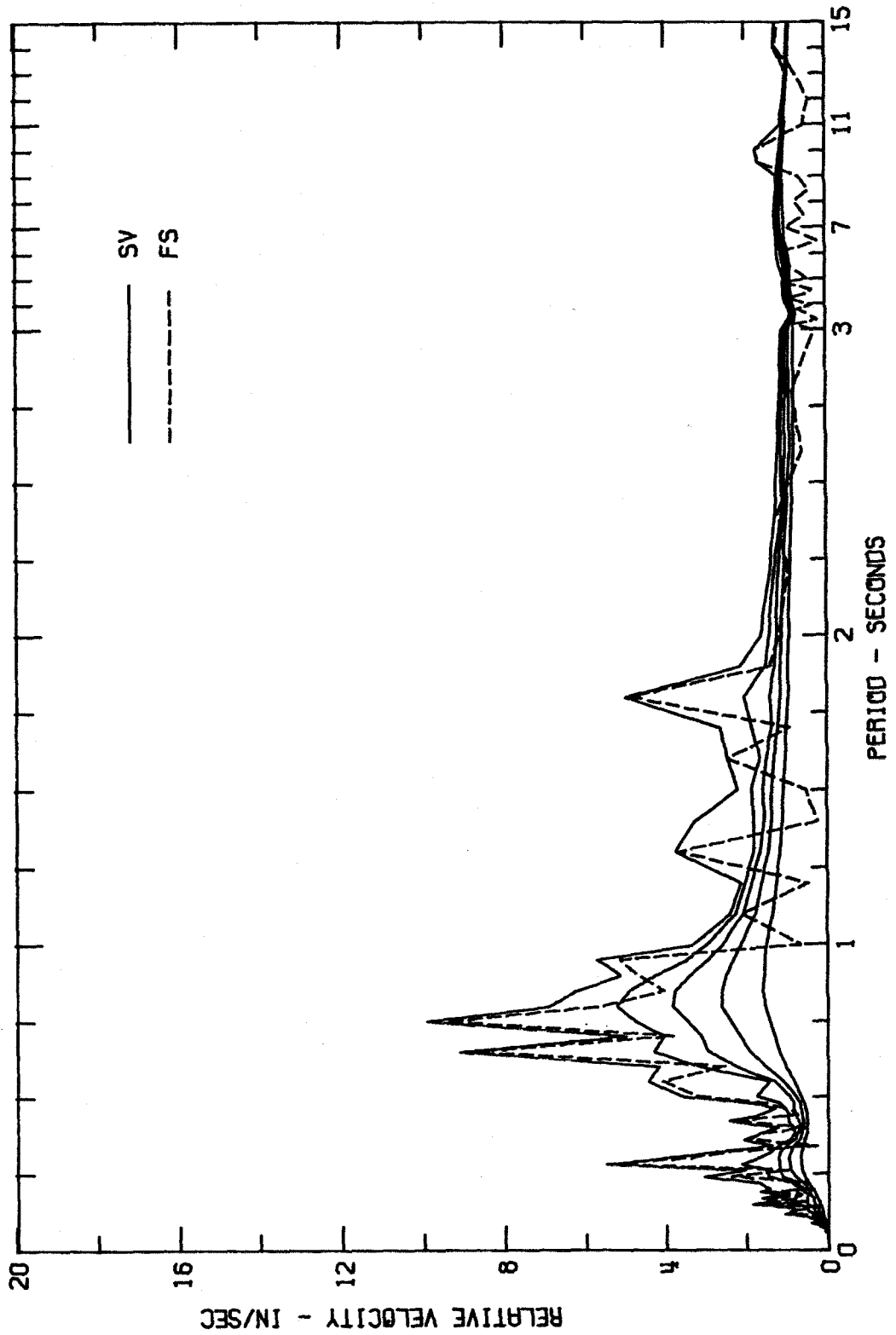
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DAMPING = 0 PER CENT										DAMPING = 2 PER CENT										DAMPING = 5 PER CENT										DAMPING = 10 PER CENT										DAMPING = 20 PER CENT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
0.040	585-4	899-6	719-4	574-4	141-3	748-6	554-4	478-4	117-3	715-6	534-4	458-4	112-3	667-6	502-4	428-4	104-3	589-6	447-4	382-4	925-4	0.042	693-4	100-5	846-4	583-4	150-3	819-6	596-4	476-4	122-3	784-6	566-4	458-4	117-3	731-6	520-4	431-4	109-3	644-6	464-4	387-4	963-4	0.044	565-4	111-5	794-4	590-4	159-3	895-6	634-4	470-4	127-3	802-6	557-4	429-4	114-3	713-6	480-4	389-4	101-3	0.046	713-4	117-5	922-4	569-4	160-3	991-6	669-4	478-4	135-3	886-6	590-4	425-4	121-3	784-6	510-4	388-4	107-3	0.048	726-4	139-5	948-4	617-4	182-3	108-5	700-4	481-4	141-3	103-5	669-4	460-4	431-4	126-3	852-6	539-4	386-4	111-3	0.050	558-4	144-5	959-4	590-4	181-3	117-5	696-4	481-4	147-3	112-5	669-4	461-4	431-4	131-3	926-6	561-4	384-4	116-3	0.055	994-4	165-5	125-3	560-4	189-3	140-5	797-4	473-4	160-3	134-5	759-4	457-4	432-4	143-3	111-5	602-4	391-4	127-3	0.060	105-3	207-5	131-3	588-4	216-3	169-5	880-4	482-4	177-3	162-5	841-4	462-4	432-4	158-3	133-5	678-4	388-4	140-3	0.065	121-3	251-5	182-3	608-4	243-3	197-5	981-4	477-4	190-3	188-5	908-4	460-4	434-4	170-3	156-5	744-4	391-4	151-3	0.070	106-3	289-5	192-3	604-4	259-3	229-5	109-3	481-4	206-3	219-5	963-4	462-4	434-4	183-3	180-5	781-4	389-4	162-3	0.075	224-3	323-5	233-3	588-4	270-3	262-5	122-3	476-4	220-3	251-5	106-3	453-4	210-3	235-5	972-4	431-4	196-3	208-5	838-4	391-4	174-3	0.080	132-3	431-5	274-3	689-4	338-3	310-5	172-3	497-4	244-3	289-5	140-3	464-4	227-3	269-5	112-3	242-5	913-4	390-4	190-3	0.085	353-3	687-5	445-3	973-4	508-3	399-5	214-3	567-4	295-3	345-5	173-3	490-4	255-3	304-5	135-3	280-5	980-4	401-4	207-3	0.090	433-3	919-5	587-3	116-3	641-3	515-5	242-3	649-4	360-3	416-5	214-3	529-4	290-3	351-5	165-3	323-5	108-3	225-3	0.095	515-3	117-4	715-3	132-3	775-3	695-5	396-3	786-4	459-3	515-5	276-3	585-4	341-3	406-5	192-3	268-3	365-5	126-3	419-4	242-3	0.100	462-3	124-4	724-3	127-3	782-3	695-5	357-3	712-4	436-3	552-5	270-3	559-4	347-3	457-5	199-3	420-5	147-3	444-4	264-3	0.110	178-3	146-4	721-3	124-3	839-3	786-5	416-3	668-4	449-3	727-5	289-3	612-4	415-3	662-5	250-3	378-3	566-5	196-3	490-4	323-3	0.120	791-3	204-4	101-2	145-3	107-2	144-4	636-3	101-3	754-3	108-4	417-3	770-4	568-3	921-5	331-3	659-4	482-3	716-5	239-3	534-4	374-3	0.130	105-2	331-4	153-2	200-3	160-2	187-4	753-3	113-3	907-3	142-4	577-3	861-4	688-3	116-4	436-3	698-4	561-3	878-5	296-3	551-4	444-3	0.140	213-2	932-4	215-2	261-3	225-2	277-4	113-2	145-3	124-2	186-4	733-3	980-4	837-3	136-4	500-3	718-4	611-3	100-4	337-3	552-4	473-3	0.150	226-2	588-4	242-2	267-3	246-2	318-4	125-2	144-3	133-2	239-4	954-3	108-3	100-2	162-4	606-3	740-4	680-3	113-4	378-3	540-4	473-3	0.160	344-2	932-4	354-2	372-3	366-2	384-4	150-2	154-3	151-2	242-4	930-3	964-4	953-3	164-4	600-3	676-4	645-3	124-4	401-3	522-4	481-3	0.170	223-3	472-4	174-2	167-3	174-2	335-4	126-2	118-3	123-2	241-4	878-3	860-4	891-3	177-4	619-3	629-4	655-3	136-4	430-3	512-4	504-3	0.180	189-2	700-4	228-2	221-3	244-2	328-4	117-2	104-3	114-2	232-4	834-3	742-4	811-3	198-4	584-3	632-4	694-3	151-4	435-3	505-4	528-3	0.190	477-3	467-4	138-2	132-3	154-2	339-4	903-3	963-4	112-2	285-4	714-3	818-4	944-3	230-4	571-3	668-4	762-3	173-4	440-3	519-4	573-3	0.200	118-2	616-4	173-2	157-3	193-2	472-4	124-2	121-3	148-2	353-4	963-3	916-4	111-2	273-4	703-3	692-4	858-3	191-4	475-3	505-4	601-3	0.220	110-2	843-4	225-2	178-3	240-2	563-4	141-2	120-3	160-2	456-4	110-2	973-4	130-2	347-4	853-3	735-4	992-3	239-4	595-3	524-4	683-3	0.240	249-2	104-3	268-2	184-3	272-2	605-4	154-2	107-3	158-2	482-4	121-2	856-4	126-2	390-4	931-3	704-4	102-2	293-4	634-3	550-4	761-3	0.260	509-2	211-3	510-2	319-3	509-2	814-4	192-2	123-3	196-2	611-4	139-2	943-4	147-2	490-4	107-2	757-4	118-2	352-4	781-3	580-4	852-3	0.280	414-3	121-3	650-2	158-3	272-2	908-4	190-2	182-3	203-2	767-4	159-2	101-3	172-2	608-4	122-2	817-4	136-2	420-4	967-3	599-4	944-3	0.300	646-2	333-3	690-2	245-3	480-2	378-3	698-2	161-3	324-2	182-3	337-2	128-3	236-2	253-2	859-4	186-2	861-4	168-2	552-4	111-2	578-4	102-2	0.320	359-2	245-3	450-2	226-3	472-2	613-4	312-2	142-3	298-2	119-3	238-2	107-3	220-2	898-4	169-2	805-4	166-2	643-4	120-2	601-4	118-2	0.340	185-2	255-3	450-2	226-3	472-2	613-4	312-2	142-3	298-2	119-3	238-2	107-3	220-2	898-4	169-2	805-4	166-2	643-4	120-2	601-4	118-2	0.360	245-2	153-3	287-2	121-3	267-2	135-3	245-2	107-3	236-2	121-3	213-2	971-4	212-2	111-3	168-2	823-4	177-2	721-4	125-2	605-4	125-2	0.380	843-3	229-3	347-2	162-3	378-2	156-3	263-2	110-3	259-2	139-3	226-2	990-4	231-2	105-3	178-2	824-4	191-2	801-4	133-2	610-4	132-2	0.400	115-2	194-3	318-2	124-3	305-2	178-3	280-2	114-3	280-2	157-3	236-2	101-3	247-2	127-3	187-2	838-4	200-2	869-4	138-2	597-4	136-2	0.420	528-2	431-3	638-2	250-3	645-2	222-3	315-2	129-3	332-2	175-3	239-2	102-3	262-2	139-3	198-2	825-4	208-2	943-4	140-2	595-4	141-2	0.440	749-2	563-3	791-2	297-3	716-2	224-3	327-2	118-3	320-2	191-3	257-2	101-3	273-2	149-3	210-2	804-4	213-2	102-3	145-2	585-4	146-2	0.460	604-2	524-3	706-2	253-3	716-2	224-3	327-2	118-3	320-2	191-3	257-2	101-3	273-2	149-3	210-2	804-4	213-2	102-3	145-2	585-4	146-2	0.480	187-2	566-3	750-2	251-3	741-2	301-3	386-2	134-3	394-2	220-3	284-2	985-4	288-2	159-3	229-2	730-4	208-2	113-3	155-2	564-4	149-2	0.500	510-2	418-3	517-2	171-3	526-2	267-3	397-2	123-3	380-2	216-3	295-2	898-4	271-2	168-3	232-2	708-4	212-2	118-3	163-2	538-4	149-2	0.550	637-2	619-3	705-2	209-3	707-2	267-3	344-2	905-4	305-2	219-3	274-2	751-4	250-2	178-3	234-2	618-4	203-2	121-3	177-2	469-4	149-2	0.600	235-2	502-3	524-2	142-3	526-2	255-3	312-2	727-4	267-2	219-3	282-2	623-4	229-2	177-3	241-2	513-4	185-2	138-3	184-2	423-4	134-2	0.650	213-2	353-3	335-2	854-4	341-2	246-3	302-2	600-4	238-2	225-3	273-2	552-4	218-2	196-3	236-2	486-4	189-2	151-3	182-2	400-4	146-2	0.700	467-2	581-3	518-2	121-3	521-2	310-3	275-2	648-4	278-2	242-3	253-2	509-4	217-2	210-3	221-2	452-4	189-2	161-3	173-2	374-4	145-2

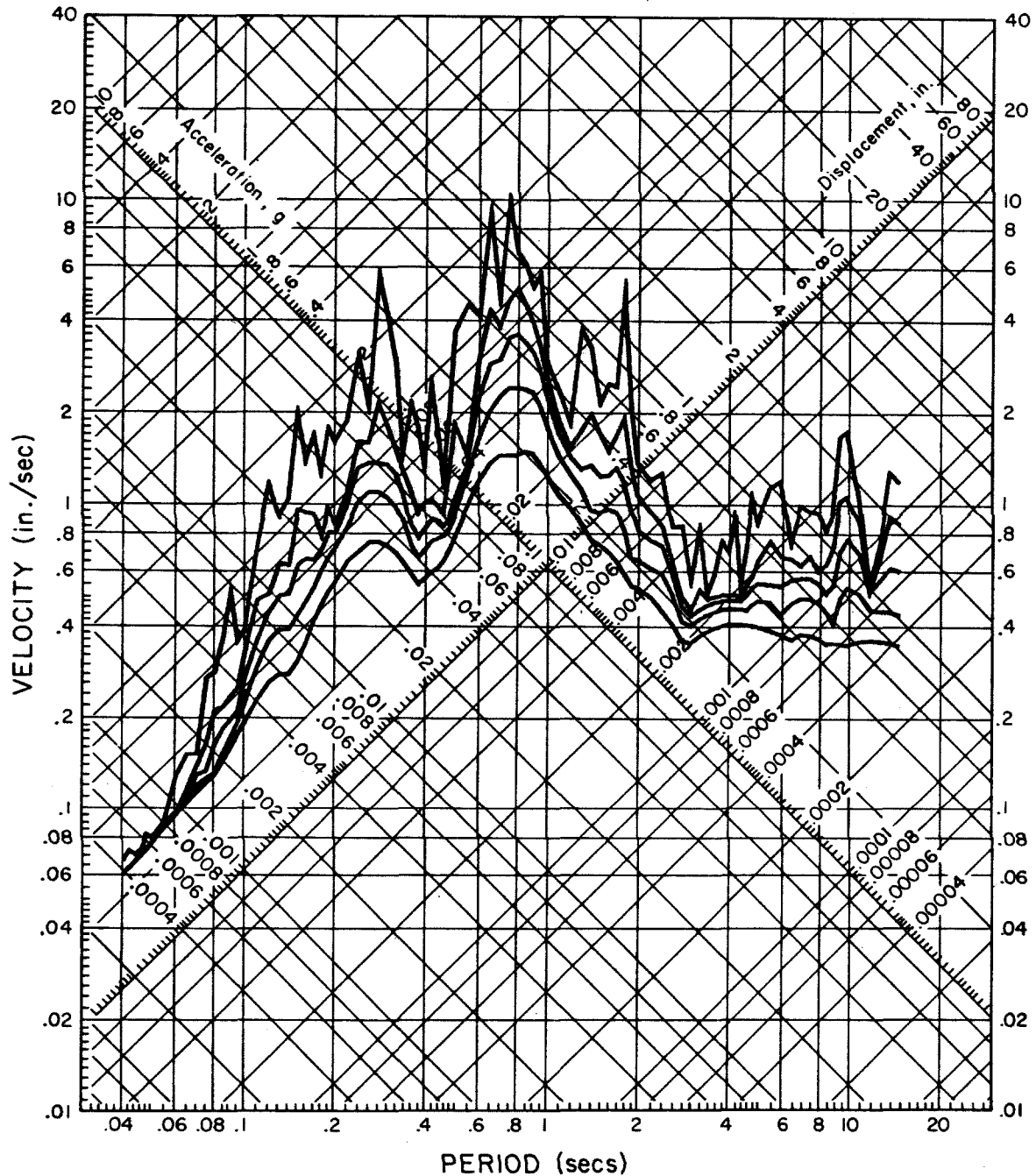
THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	DAMPING = 0 PER CENT					DAMPING = 2 PER CENT					DAMPING = 5 PER CENT					DAMPING = 10 PER CENT					DAMPING = 20 PER CENT					
	FS	SD	SV	SA	PSV	FS	SD	SV	SA	PSV	FS	SD	SV	SA	PSV	FS	SD	SV	SA	PSV	FS	SD	SV	SA	PSV	
0.75	733-2	910-3	765-2	165-3	762-2	446-3	373-2	811-4	374-2	303-3	252-2	555-4	253-2	242-3	198-2	450-4	202-2	167-3	159-2	342-4	140-2					
0.80	136-1	194-2	153-1	311-3	153-1	715-3	566-2	114-3	562-2	488-3	376-2	784-4	383-2	315-3	256-2	515-4	247-2	183-3	168-2	324-4	144-2					
0.85	350-2	960-3	723-2	135-3	709-2	710-3	559-2	100-3	525-2	503-3	411-2	714-4	372-2	339-3	283-2	488-4	250-2	214-3	179-2	324-4	158-2					
0.90	718-2	117-2	820-2	148-3	821-2	541-3	408-2	684-4	377-2	452-3	346-2	575-4	316-2	344-3	266-2	446-4	240-2	231-3	179-2	319-4	161-2					
0.95	543-2	118-2	802-2	134-3	785-2	530-3	363-2	601-4	350-2	387-3	274-2	443-4	256-2	320-3	232-2	474-4	212-2	237-3	172-2	298-4	157-2					
1.00	827-2	161-2	100-1	164-3	101-1	478-3	335-2	490-4	300-2	332-3	235-2	342-4	209-2	286-3	199-2	304-4	180-2	238-3	170-2	274-4	149-2					
1.10	199-3	728-3	433-2	615-4	416-2	457-3	269-2	386-4	261-2	364-3	227-2	309-4	208-2	276-3	193-2	236-4	157-2	244-3	167-2	236-4	139-2					
1.20	690-2	144-2	758-2	102-3	758-2	573-3	354-2	407-4	300-2	432-3	260-2	308-4	226-2	346-3	209-2	254-4	181-2	263-3	162-2	216-4	137-2					
1.30	189-2	989-3	465-2	598-4	478-2	781-3	377-2	472-4	377-2	580-3	293-2	353-4	280-2	405-3	221-2	254-4	196-2	269-3	162-2	193-4	130-2					
1.40	340-2	116-2	537-2	607-4	522-2	640-3	378-2	335-4	287-2	479-3	306-2	252-4	215-2	352-3	235-2	191-4	158-2	264-3	171-2	159-4	118-2					
1.50	396-2	951-3	398-2	432-4	398-2	508-3	250-2	231-4	213-2	396-3	216-2	181-4	166-2	313-3	199-2	150-4	131-2	279-3	167-2	149-4	116-2					
1.60	221-2	584-3	260-2	233-4	229-2	453-3	242-2	181-4	178-2	383-3	219-2	154-4	150-2	327-3	188-2	139-4	128-2	293-3	160-2	140-4	115-2					
1.70	296-2	825-3	308-2	291-4	304-2	430-3	243-2	152-4	159-2	387-3	222-2	138-4	143-2	339-3	193-2	128-4	125-2	306-3	155-2	131-4	113-2					
1.80	350-2	111-2	401-2	352-4	389-2	536-3	230-2	169-4	187-2	399-3	213-2	127-4	139-2	352-3	189-2	119-4	123-2	317-3	153-2	123-4	110-2					
1.90	161-2	906-3	334-2	256-4	299-2	594-3	236-2	168-4	196-2	434-3	204-2	124-4	143-2	363-3	178-2	110-4	120-2	328-3	151-2	116-4	108-2					
2.00	172-2	957-3	297-2	244-4	300-2	559-3	214-2	143-4	175-2	436-3	149-2	112-4	137-2	373-3	165-2	103-4	117-2	338-3	145-2	109-4	106-2					
2.20	129-2	737-3	214-2	155-4	210-2	530-3	181-2	112-4	151-2	479-3	188-2	102-4	136-2	407-3	141-2	912-5	116-2	356-3	130-2	978-5	101-2					
2.40	277-3	568-3	185-2	100-4	148-2	532-3	165-2	948-5	139-2	484-3	152-2	874-5	126-2	415-3	146-2	795-5	108-2	371-3	134-2	880-5	972-3					
2.60	109-2	683-3	203-2	103-4	165-2	501-3	183-2	762-5	121-2	459-3	160-2	710-5	111-2	418-3	150-2	704-5	101-2	385-3	138-2	797-5	930-3					
2.80	278-2	127-2	280-2	165-4	285-2	599-3	172-2	782-5	134-2	476-3	159-2	627-5	106-2	430-3	153-2	630-5	966-3	396-3	142-2	726-5	890-3					
3.00	131-2	914-3	226-2	103-4	191-2	755-3	207-2	859-5	158-2	581-3	186-2	669-5	121-2	499-3	163-2	596-5	104-2	401-3	145-2	665-5	852-3					
3.20	181-2	105-2	252-2	105-4	207-2	751-3	231-2	750-5	147-2	663-3	206-2	675-5	130-2	571-3	176-2	607-5	112-2	440-3	148-2	613-5	865-3					
3.40	163-2	973-3	239-2	860-5	179-2	811-3	221-2	718-5	149-2	714-3	200-2	646-5	132-2	617-3	174-2	590-5	114-2	476-3	150-2	567-5	880-3					
3.60	150-2	109-2	214-2	235-2	214-2	839-3	191-2	663-5	146-2	744-3	177-2	598-5	129-2	661-3	163-2	556-5	112-2	499-3	152-2	527-5	871-3					
3.80	223-2	142-2	235-2	100-4	234-2	914-3	181-2	649-5	151-2	783-3	168-2	563-5	129-2	661-3	163-2	511-5	109-2	510-3	154-2	492-5	844-3					
4.00	122-2	105-2	191-2	676-5	166-2	918-3	172-2	588-5	144-2	790-3	169-2	515-5	124-2	662-3	164-2	461-5	104-2	516-3	156-2	461-5	812-3					
4.20	117-2	949-3	192-2	550-5	142-2	859-3	179-2	500-5	128-2	744-3	170-2	443-5	111-2	649-3	166-2	410-5	971-3	536-3	157-2	433-5	801-3					
4.40	611-3	905-3	200-2	478-5	129-2	808-3	186-2	427-5	115-2	721-3	171-2	385-5	102-2	626-3	167-2	370-5	894-3	594-3	159-2	408-5	791-3					
4.60	123-2	108-2	207-2	523-5	147-2	854-3	193-2	414-5	116-2	766-3	175-2	374-5	104-2	642-3	167-2	350-5	878-3	571-3	160-2	386-5	780-3					
4.80	174-2	138-2	206-2	615-5	181-2	888-3	194-2	395-5	116-2	800-3	177-2	359-5	104-2	674-3	168-2	331-5	883-3	587-3	161-2	367-5	768-3					
5.00	794-3	972-3	200-2	397-5	122-2	908-3	189-2	372-5	114-2	821-3	175-2	340-5	103-2	697-3	169-2	314-5	876-3	601-3	162-2	351-5	755-3					
5.50	136-2	165-2	190-2	561-5	189-2	949-3	177-2	321-5	108-2	850-3	175-2	291-5	971-3	713-3	171-2	276-5	815-3	632-3	164-2	316-5	722-3					
6.00	149-3	120-2	179-2	343-5	126-2	105-2	178-2	300-5	110-2	952-3	176-2	277-5	997-3	811-3	172-2	248-5	849-3	659-3	166-2	287-5	690-3					
6.50	197-2	207-2	197-2	502-5	200-2	119-2	178-2	288-5	115-2	978-3	177-2	244-5	946-3	845-3	173-2	225-5	817-3	681-3	167-2	261-5	658-3					
7.00	162-2	184-2	180-2	385-5	165-2	115-2	179-2	240-5	103-2	951-3	177-2	206-5	853-3	831-3	174-2	196-5	746-3	699-3	168-2	239-5	627-3					
7.50	707-3	146-2	181-2	266-5	122-2	112-2	180-2	205-5	945-3	918-3	178-2	171-5	769-3	784-3	175-2	177-5	657-3	716-3	170-2	220-5	600-3					
8.00	244-2	311-2	244-2	498-5	244-2	167-2	180-2	268-5	131-2	105-2	178-2	170-5	824-3	814-3	176-2	161-5	640-3	737-3	171-2	204-5	578-3					
8.50	854-3	238-2	210-2	337-5	176-2	177-2	180-2	251-5	131-2	122-2	179-2	174-5	905-3	864-3	176-2	147-5	639-3	755-3	171-2	189-5	558-3					
9.00	174-2	250-2	182-2	316-5	174-2	150-2	181-2	190-5	105-2	111-2	179-2	141-5	770-3	918-3	177-2	137-5	641-3	800-3	172-2	176-5	558-3					
9.50	995-3	171-2	182-2	194-5	113-2	121-2	181-2	138-5	803-3	108-2	179-2	126-5	720-3	966-3	177-2	130-5	639-3	846-3	173-2	165-5	559-3					
10.00	160-3	146-2	182-2	150-5	922-3	129-2	181-2	133-5	816-3	112-2	180-2	118-5	703-3	100-2	178-2	123-5	634-3	890-3	173-2	155-5	559-3					
11.00	155-2	313-2	196-2	264-5	179-2	229-2	181-2	193-5	130-2	161-2	180-2	136-5	920-3	108-2	178-2	111-5	619-3	964-3	175-2	138-5	551-3					
12.00	224-2	428-2	225-2	304-5	224-2	269-2	182-2	269-2	141-2	184-2	181-2	132-5	968-3	133-2	179-2	104-5	699-3	102-2	175-2	124-5	537-3					
13.00	489-3	314-2	183-2	190-5	152-2	261-2	182-2	158-5	126-2	211-2	181-2	129-5	102-2	155-2	179-2	978-6	752-3	107-2	176-2	112-5	521-3					
14.00	145-2	324-2	183-2	169-5	145-2	268-2	182-2	268-2	120-2	217-2	181-2	114-5	977-3	160-2	180-2	907-6	718-3	112-2	177-2	102-5	503-3					
15.00	169-2	403-2	183-2	183-5	169-2	277-2	182-2	126-5	116-2	197-2	181-2	913-6	826-3	153-2	180-2	787-6	642-3	116-2	177-2	945-6	486-3					

RELATIVE VELOCITY RESPONSE SPECTRUM
CENTRAL CALIFORNIA EARTHQUAKE JAN 19, 1960 - 1926 PST
111U307 60.001.0 PUBLIC LIBRARY, HOLLISTER, CALIFORNIA COMP UP
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



CENTRAL CALIFORNIA EARTHQUAKE JAN 19, 1960 - 1926 PST

IIU307 60.001.0 PUBLIC LIBRARY, HOLLISTER, CALIFORNIA COMP UP

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT DAMPING = 2 PER CENT DAMPING = 5 PER CENT DAMPING = 10 PER CENT DAMPING = 20 PER CENT

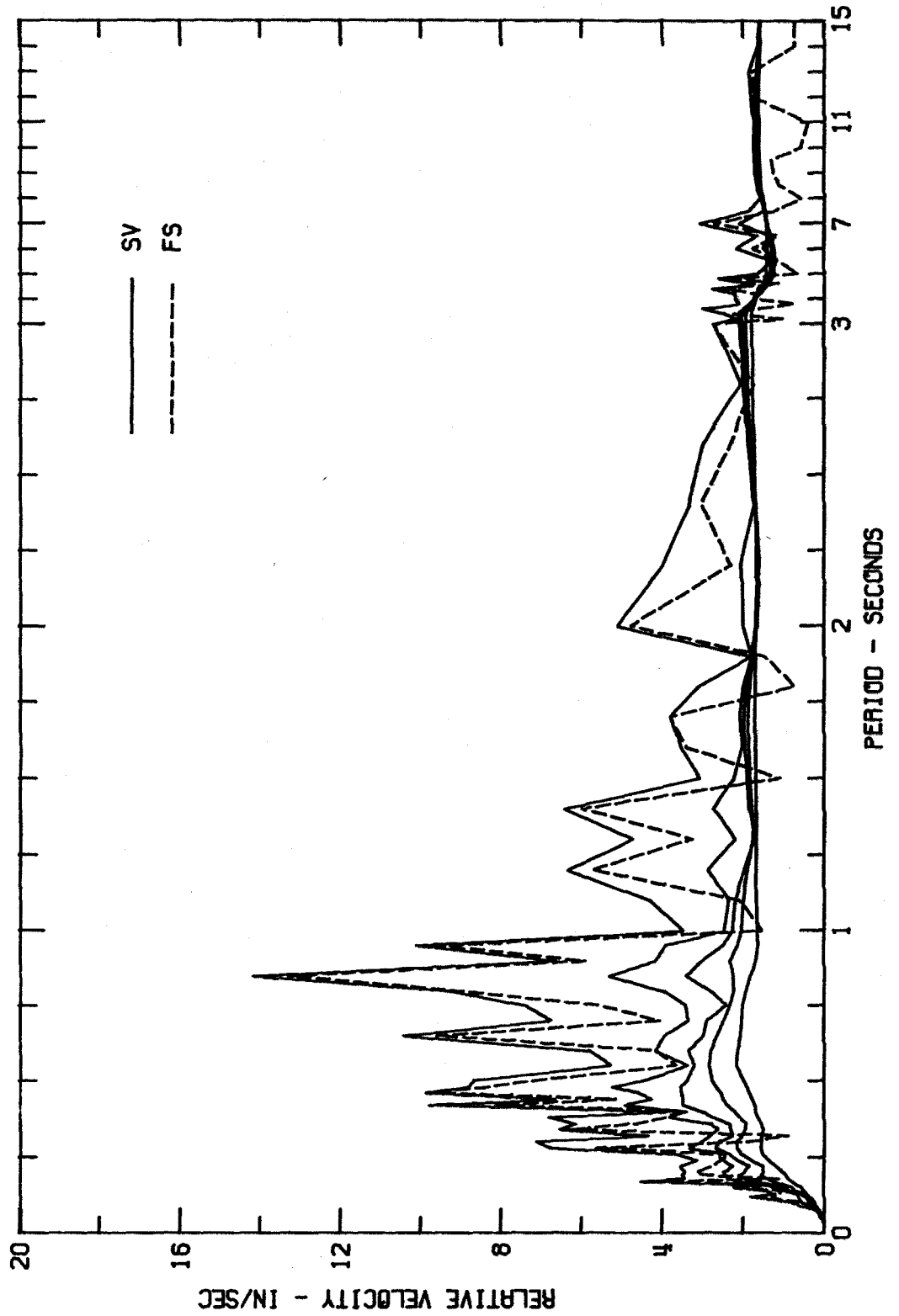
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0.040	116-4	421-6	172-4	269-4	661-4	381-6	117-4	244-4	599-4	378-6	100-4	242-4	595-4	379-6	103-4	242-4	595-4
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0.044	110-4	482-6	227-4	255-4	689-4	457-6	145-4	241-4	653-4	457-6	132-4	241-4	653-4	458-6	127-4	242-4	655-4
0.046	319-5	525-6	222-4	254-4	717-4	504-6	166-4	243-4	689-4	499-6	152-4	241-4	682-4	503-6	144-4	243-4	687-4
0.048	193-4	615-6	313-4	273-4	805-4	555-6	190-4	246-4	727-4	549-6	167-4	244-4	719-4	552-6	159-4	245-4	722-4
0.050	294-5	621-6	215-4	254-4	781-4	606-6	210-4	247-4	762-4	606-6	189-4	248-4	762-4	604-6	176-4	247-4	759-4
0.055	126-4	782-6	388-4	264-4	894-4	764-6	262-4	258-4	873-4	763-6	231-4	258-4	872-4	750-6	222-4	254-4	857-4
0.060	713-4	121-5	853-4	344-4	127-3	906-6	405-4	257-4	948-4	914-6	330-4	259-4	957-4	911-6	286-4	258-4	954-4
0.065	130-4	154-5	694-4	374-4	149-3	118-5	470-4	287-4	114-3	111-5	408-4	271-4	108-3	109-5	355-4	266-4	106-3
0.070	501-4	166-5	828-4	348-4	149-3	154-5	628-4	320-4	138-3	142-5	517-4	296-4	127-3	131-5	461-4	274-4	117-3
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0.080	130-3	356-5	229-3	570-4	280-3	265-5	163-3	427-4	208-3	206-5	111-3	328-4	161-3	164-5	778-4	265-4	129-3
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0.100	281-3	615-5	314-3	629-4	386-3	513-5	259-3	522-4	322-3	421-5	205-3	429-4	264-3	346-5	153-3	356-4	217-3
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0.170	687-3	360-4	118-2	113-3	125-2	222-4	694-3	701-4	775-3	202-4	530-3	644-4	706-3	173-4	444-3	551-4	605-3
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0.380	583-3	834-4	124-2	533-4	131-2	642-4	906-3	410-4	100-2	528-4	731-3	340-4	830-3	450-4	647-3	295-4	707-3
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0.920	379-2	528-3	498-2	110-3	474-2	427-3	404-2	896-4	383-2	331-3	314-2	698-4	297-2	252-3	216-2	536-4	226-2
0.940	167-2	150-3	189-2	666-4	196-2	952-4	123-2	421-4	124-2	684-4	879-3	306-4	896-3	634-4	717-3	284-4	830-3
0.960	322-2	295-3	360-2	120-3	370-2	146-3	176-2	595-4	183-2	814-4	970-3	332-4	102-2	724-4	808-3	299-4	909-3
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THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT DAMPING = 2 PER CENT DAMPING = 5 PER CENT DAMPING = 10 PER CENT DAMPING = 20 PER CENT

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV				
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0.80	561-2	850-3	693-2	136-3	672-2	654-3	526-2	104-3	513-2	460-3	386-2	742-4	361-2	306-3	264-2	500-4	240-2	183-3	157-2	313-4	144-2
0.85	405-2	833-3	622-2	117-3	615-2	608-3	492-2	860-4	449-2	460-3	376-2	655-4	340-2	322-3	261-2	465-4	238-2	201-3	161-2	305-4	148-2
0.90	473-2	738-3	515-2	932-4	515-2	562-3	427-2	709-4	392-2	451-3	341-2	574-4	315-2	332-3	251-2	429-4	232-2	208-3	157-2	287-4	145-2
0.95	519-2	863-3	575-2	978-4	571-2	504-3	348-2	572-4	333-2	410-3	296-2	475-4	275-2	316-3	232-2	368-4	209-2	205-3	156-2	259-4	135-2
1.00	699-3	472-3	334-2	482-4	296-2	422-3	301-2	432-4	265-2	360-3	261-2	370-4	226-2	286-3	214-2	301-4	180-2	198-3	153-2	225-4	124-2
1.10	210-2	413-3	238-2	349-4	236-2	328-3	225-2	277-4	187-2	290-3	206-2	251-4	169-2	249-3	177-2	218-4	142-2	186-3	134-2	178-4	106-2
1.20	499-3	349-3	213-2	248-4	183-2	292-3	202-2	208-4	153-2	271-3	187-2	194-4	142-2	238-3	163-2	176-4	124-2	184-3	127-2	154-4	968-3
1.30	367-2	779-3	377-2	371-4	376-2	360-3	180-2	218-4	174-2	268-3	165-2	163-4	129-2	229-3	145-2	145-4	111-2	176-3	117-2	130-4	853-3
1.40	264-3	725-3	329-2	328-4	325-2	441-3	182-2	230-4	198-2	297-3	157-2	150-4	133-2	211-3	138-2	114-4	950-3	169-3	112-2	106-4	759-3
1.50	539-3	511-3	220-2	232-4	214-2	404-3	186-2	184-4	169-2	294-3	158-2	134-4	123-2	223-3	137-2	103-4	934-3	174-3	109-2	921-5	730-3
1.60	248-2	633-3	248-2	253-4	248-2	370-3	166-2	151-4	148-2	314-3	150-2	126-4	123-2	244-3	132-2	100-4	958-3	176-3	105-2	814-5	693-3
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1.80	492-2	143-2	502-2	454-4	502-2	551-3	142-2	869-5	106-2	259-3	124-2	670-5	816-3	208-3	113-2	569-5	655-3	168-3	957-3	521-5	529-3
1.90	141-2	624-3	213-2	176-4	206-2	400-3	151-2	113-4	132-2	287-3	128-2	819-5	949-3	200-3	115-2	601-5	661-3	162-3	967-3	545-5	538-3
2.00	118-2	432-3	162-2	110-4	135-2	339-3	142-2	869-5	106-2	259-3	124-2	670-5	816-3	208-3	113-2	569-5	655-3	168-3	957-3	521-5	529-3
2.10	957-3	417-3	140-2	882-5	119-2	331-3	131-2	701-5	945-3	266-3	120-2	571-5	760-3	215-3	106-2	492-5	615-3	173-3	910-3	464-5	495-3
2.20	121-2	481-3	127-2	855-5	126-2	323-3	110-2	575-5	847-3	278-3	105-2	500-5	728-3	224-3	984-3	421-5	587-3	170-3	872-3	403-5	445-3
2.30	606-3	349-3	121-2	528-5	843-3	270-3	113-2	410-5	653-3	242-3	103-2	375-5	586-3	208-3	918-3	337-5	504-3	167-3	817-3	343-5	404-3
2.40	848-3	378-3	114-2	493-5	848-3	222-3	108-2	290-5	498-3	206-3	101-2	274-5	463-3	183-3	928-3	254-5	412-3	158-3	816-3	288-5	356-3
2.50	286-3	266-3	110-2	303-5	558-3	215-3	105-2	246-5	451-3	205-3	100-2	241-5	430-3	191-3	926-3	241-5	400-3	168-3	819-3	249-5	352-3
2.60	795-3	423-3	101-2	423-5	831-3	268-3	984-3	268-5	527-3	230-3	946-3	239-5	452-3	214-3	890-3	240-5	421-3	188-3	805-3	247-5	370-3
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RELATIVE VELOCITY RESPONSE SPECTRUM
NORTHERN CALIFORNIA EARTHQUAKE JUN 5, 1960 - 1718 PST
111U308 60.002.0 CITY HALL, FERNDALE, CALIFORNIA COMP N16W
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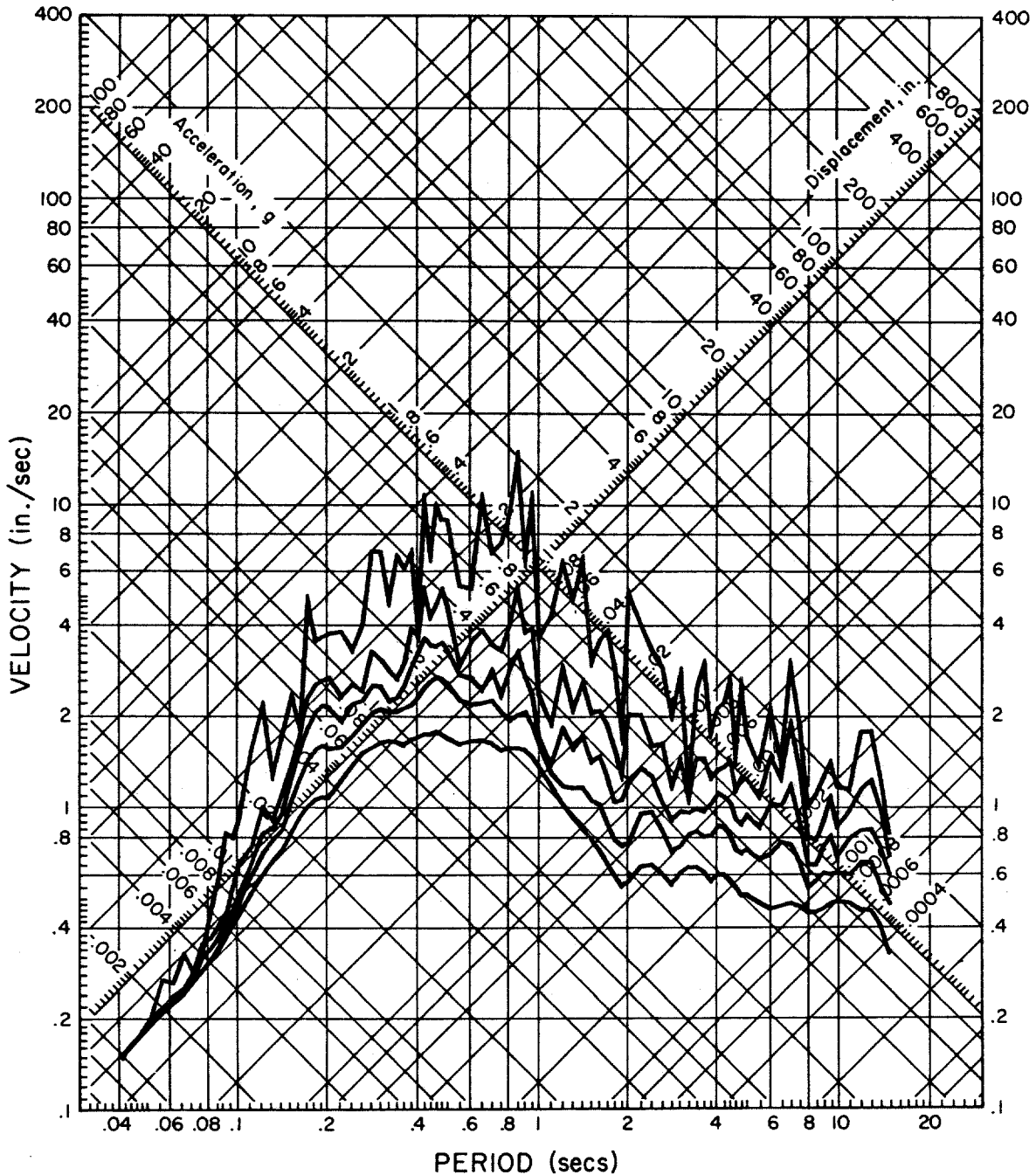


RESPONSE SPECTRUM

NORTHERN CALIFORNIA EARTHQUAKE JUN 5, 1960 - 1718 PST

IIIU308 60.002.0 CITY HALL, FERNDALE, CALIFORNIA COMP N46H

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



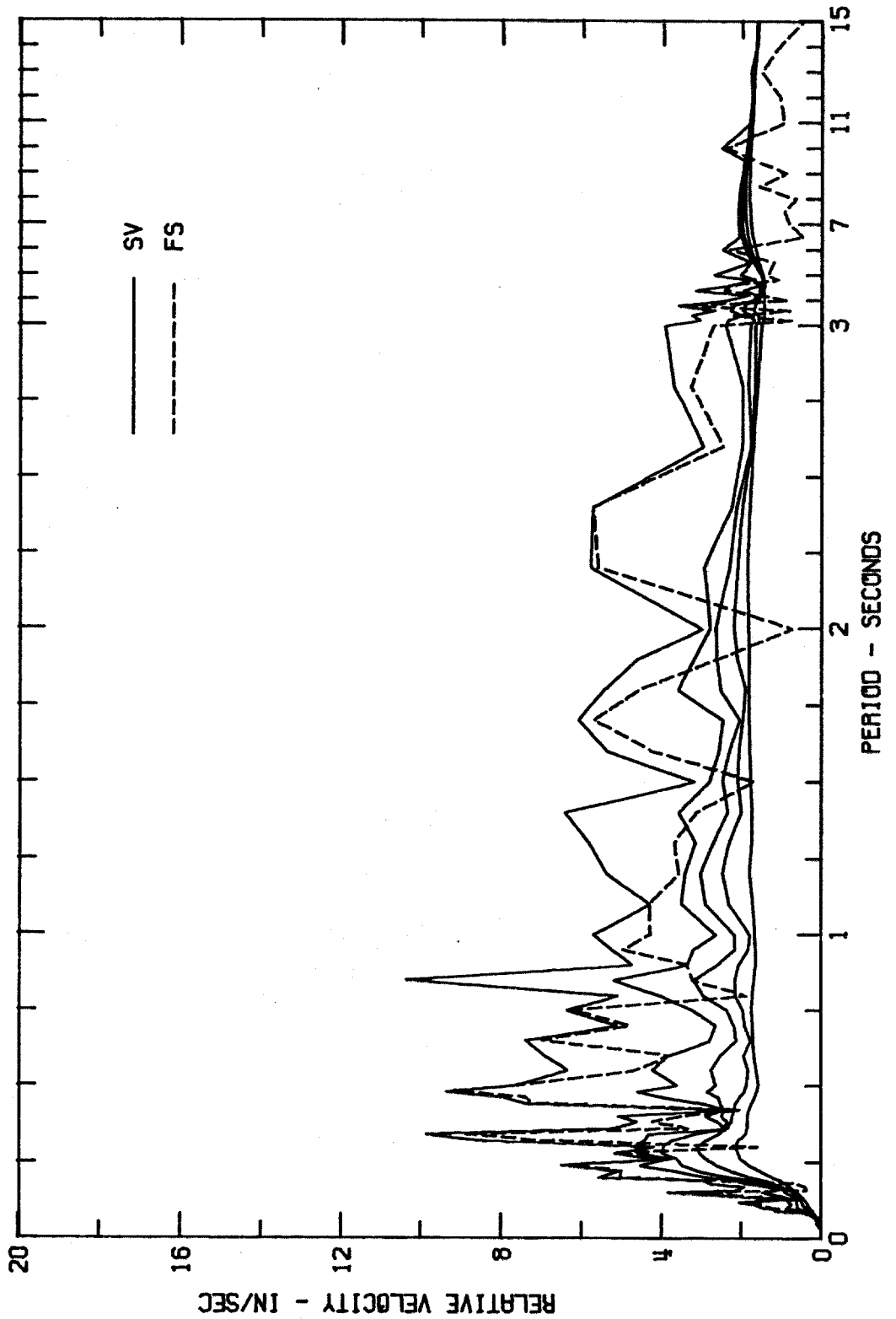
NORTHERN CALIFORNIA EARTHQUAKE JUN 5, 1960 - 1718 PST

111U308 60.002.0 CITY HALL, FERNDAL, CALIFORNIA COMP N46W

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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RELATIVE VELOCITY RESPONSE SPECTRUM
NORTHERN CALIFORNIA EARTHQUAKE JUN 5, 1960 - 1718 PST
1111U308 60.002.0 CITY HALL, FERNDALE, CALIFORNIA COMP S44W
DAMPING VALUES ARE 0. 2. 5. 10 AND 20 PERCENT OF CRITICAL

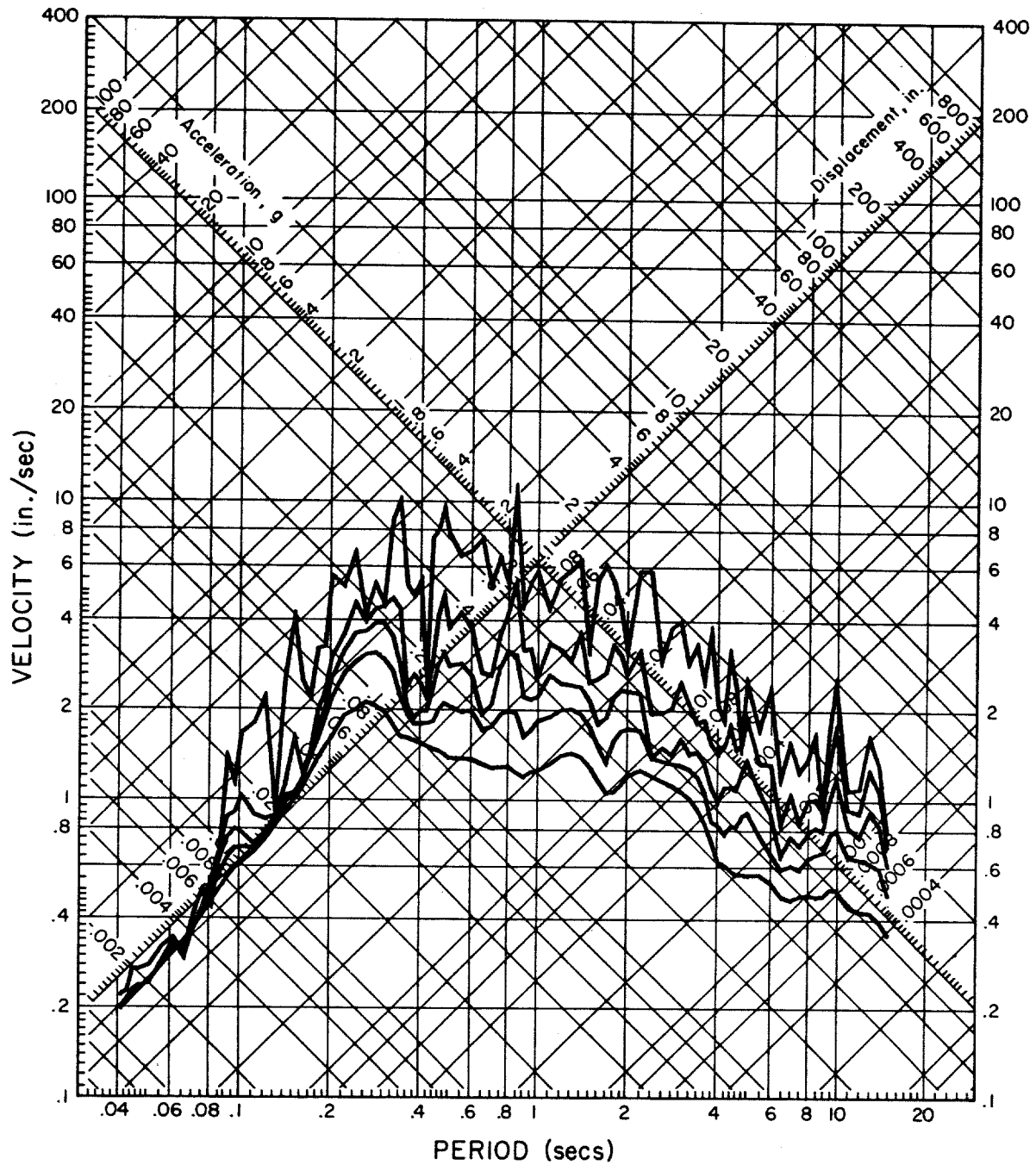


RESPONSE SPECTRUM

NORTHERN CALIFORNIA EARTHQUAKE JUN 5, 1960 - 1718 PST

IIIU308 60.002.0 CITY HALL, FERNDALE, CALIFORNIA COMP S44H

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



NORTHERN CALIFORNIA EARTHQUAKE JUN 5, 1960 - 1718 PST
111U308 60.002.0 CITY HALL, FERNDALE, CALIFORNIA COMP S44W

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

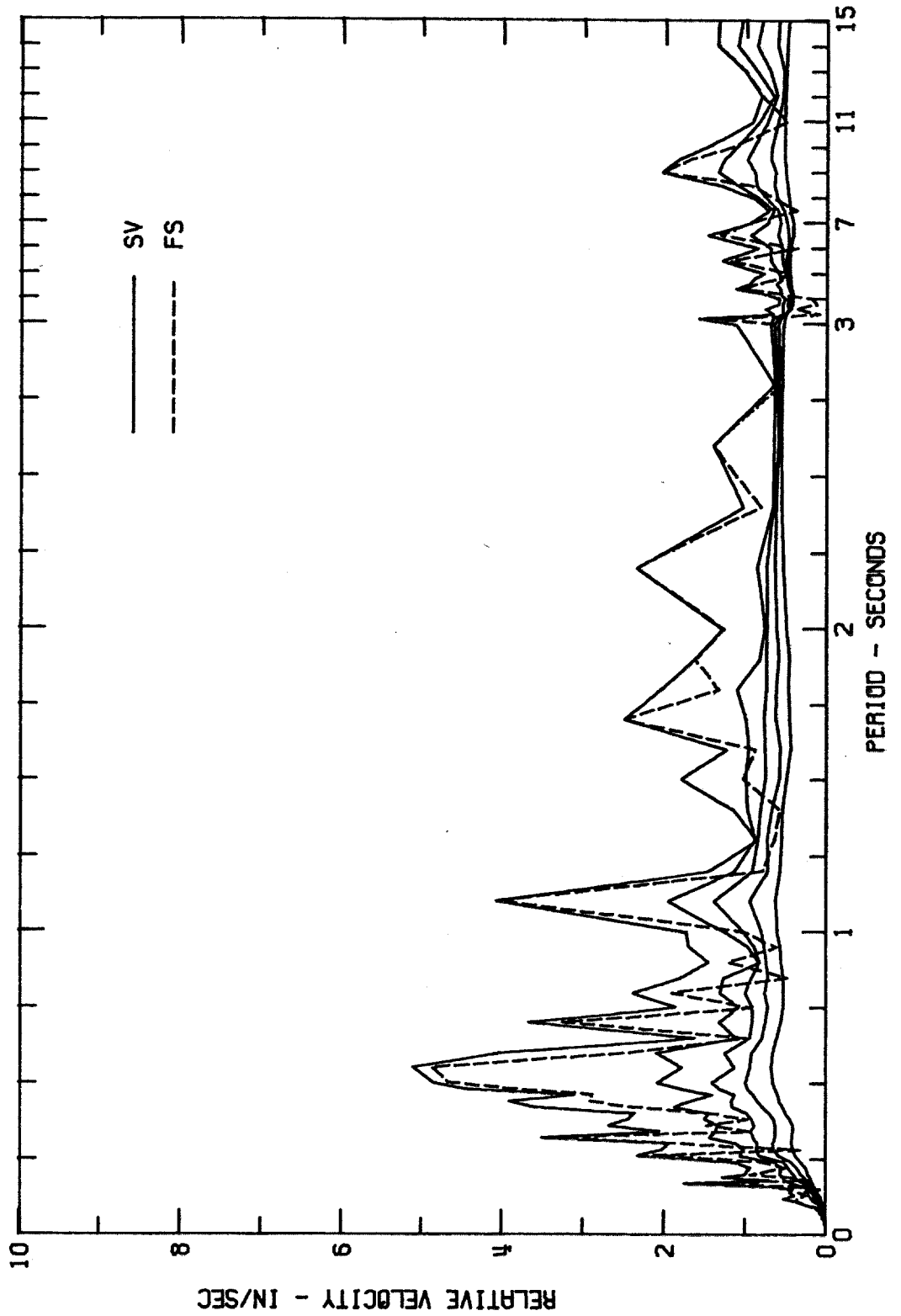
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0.055	735-4	275-5	107-3	931-4	834-4	246-5	997-4	834-4	281-3	241-5	894-4	816-4	275-3	239-5	810-4	808-4	273-3
0.060	872-4	323-5	125-3	918-4	838-3	315-5	112-3	894-4	330-3	297-5	104-3	847-4	311-3	289-5	953-4	824-4	303-3
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0.090	809-3	194-4	116-2	245-3	135-2	123-4	511-3	155-3	859-3	105-4	391-3	132-3	734-3	902-5	289-3	114-3	629-3
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0.480	917-2	722-3	939-2	320-3	945-2	368-3	463-2	163-3	482-2	233-3	286-2	104-3	305-2	157-3	193-2	707-4	205-2
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0.700	479-2	576-3	513-2	120-3	517-2	284-3	265-2	594-4	255-2	228-3	218-2	477-4	204-2	191-3	192-2	409-4	172-2

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
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0.80	186-2	663-3	510-2	106-3	521-2	535-3	405-2	856-4	420-2	394-3	297-2	633-4	309-2	246-3	214-2	471-4	193-2
0.85	325-2	141-2	199-3	103-1	709-3	523-2	523-2	100-3	524-2	404-3	321-2	578-4	299-2	258-3	217-2	374-4	190-2
0.90	337-2	636-3	473-2	803-4	444-2	444-2	336-2	560-4	310-2	308-3	260-2	393-4	215-2	227-3	207-2	295-4	159-2
0.95	500-2	802-3	529-2	909-4	530-2	474-3	321-2	538-4	313-2	320-3	217-2	364-4	211-2	253-3	182-2	295-4	167-2
1.00	431-2	919-3	572-2	940-4	577-2	397-3	265-2	407-4	249-2	343-3	216-2	353-4	215-2	285-3	179-2	300-4	179-2
1.10	431-2	754-3	431-2	637-4	431-2	572-3	353-2	484-4	327-2	448-3	292-2	381-4	255-2	324-3	232-2	284-4	185-2
1.20	358-2	104-2	541-2	739-4	545-2	598-3	343-2	425-4	313-2	457-3	304-2	326-4	239-2	373-3	249-2	270-4	195-2
1.30	371-2	119-2	584-2	724-4	579-2	590-3	317-2	357-4	285-2	489-3	271-2	298-4	236-2	408-3	231-2	252-4	197-2
1.40	315-2	139-2	645-2	726-4	624-2	792-3	360-2	414-4	355-2	520-3	235-2	273-4	233-2	425-3	201-2	229-4	190-2
1.50	169-2	762-3	318-2	346-4	319-2	577-3	281-2	263-4	241-2	499-3	249-2	228-4	209-2	411-3	210-2	194-4	172-2
1.60	428-2	137-2	540-2	547-4	538-2	634-3	256-2	253-4	249-2	447-3	231-2	179-4	175-2	376-3	206-2	156-4	147-2
1.70	573-2	164-2	610-2	580-4	606-2	707-3	247-2	250-4	261-2	499-3	205-2	177-4	184-2	354-3	196-2	128-4	130-2
1.80	459-2	153-2	547-2	485-4	536-2	931-3	363-2	294-4	325-2	619-3	255-2	196-4	216-2	446-3	190-2	144-4	155-2
1.90	261-2	133-2	462-2	378-4	442-2	910-3	320-2	257-4	300-2	690-3	264-2	190-4	228-2	504-3	212-2	145-4	166-2
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3.00	272-2	187-2	396-2	212-4	392-2	115-2	237-2	104-4	204-2	714-3	170-2	723-5	140-2	636-3	158-2	669-5	125-2
3.20	687-3	143-2	306-2	143-4	325-2	106-2	201-2	852-5	177-2	771-3	178-2	691-5	142-2	642-3	161-2	601-5	118-2
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3.60	802-3	140-2	269-2	110-4	245-2	104-2	230-2	822-5	151-2	655-3	195-2	469-5	108-2	507-3	169-2	388-5	838-3
3.80	345-2	217-2	363-2	153-4	359-2	916-3	221-2	649-5	151-2	655-3	195-2	469-5	108-2	507-3	169-2	388-5	838-3
4.00	876-3	129-2	237-2	829-5	203-2	896-3	172-2	573-5	140-2	620-3	170-2	404-5	975-3	517-3	159-2	349-5	812-3
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4.80	111-2	116-2	175-2	516-5	152-2	114-2	168-2	508-5	149-2	941-3	148-2	420-5	123-2	667-3	146-2	305-5	873-3
5.00	138-2	195-2	273-2	799-5	245-2	146-2	205-2	601-5	184-2	106-2	153-2	438-5	133-2	713-3	152-2	301-5	897-3
5.50	120-2	148-2	180-2	501-5	169-2	114-2	177-2	389-5	131-2	931-3	172-2	316-5	106-2	659-3	167-2	262-5	753-3
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6.50	469-3	120-2	207-2	290-5	116-2	849-3	202-2	206-5	821-3	667-3	196-2	180-5	645-3	599-3	187-2	192-5	579-3
7.00	830-3	171-2	211-2	356-5	153-2	115-2	206-2	240-5	103-2	834-3	200-2	175-5	749-3	667-3	191-2	159-5	598-3
7.50	952-3	146-2	211-2	265-5	122-2	991-3	207-2	180-5	830-3	833-3	200-2	156-5	697-3	693-3	193-2	134-5	581-3
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9.00	909-3	131-2	199-2	165-5	916-3	129-2	197-2	164-5	907-3	111-2	194-2	170-5	986-3	950-3	190-2	123-5	759-3
9.50	168-2	255-2	194-2	289-5	169-2	193-2	193-2	219-5	127-2	149-2	191-2	192-5	116-2	125-2	184-2	134-5	789-3
10.00	238-2	384-2	252-2	393-5	241-2	269-2	189-2	276-5	169-2	186-2	187-2	192-5	116-2	125-2	184-2	134-5	789-3
11.00	953-3	185-2	181-2	157-5	108-2	160-2	181-2	136-5	918-3	140-2	180-2	120-5	805-3	111-2	179-2	976-6	639-3
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15.00	467-3	183-2	159-2	834-6	768-3	165-2	160-2	753-6	691-3	142-2	161-2	657-6	595-3	113-2	162-2	535-6	477-3

DAMPING = 0 PER CENT DAMPING = 2 PER CENT DAMPING = 5 PER CENT DAMPING = 10 PER CENT DAMPING = 20 PER CENT

RELATIVE VELOCITY RESPONSE SPECTRUM
NORTHERN CALIFORNIA EARTHQUAKE JUN 5, 1960 - 1718 PST
111U308 60.002.0 CITY HALL, FERNDALE, CALIFORNIA COMP UP
DAMPING VALUES ARE 0. 2. 5. 10 AND 20 PERCENT OF CRITICAL

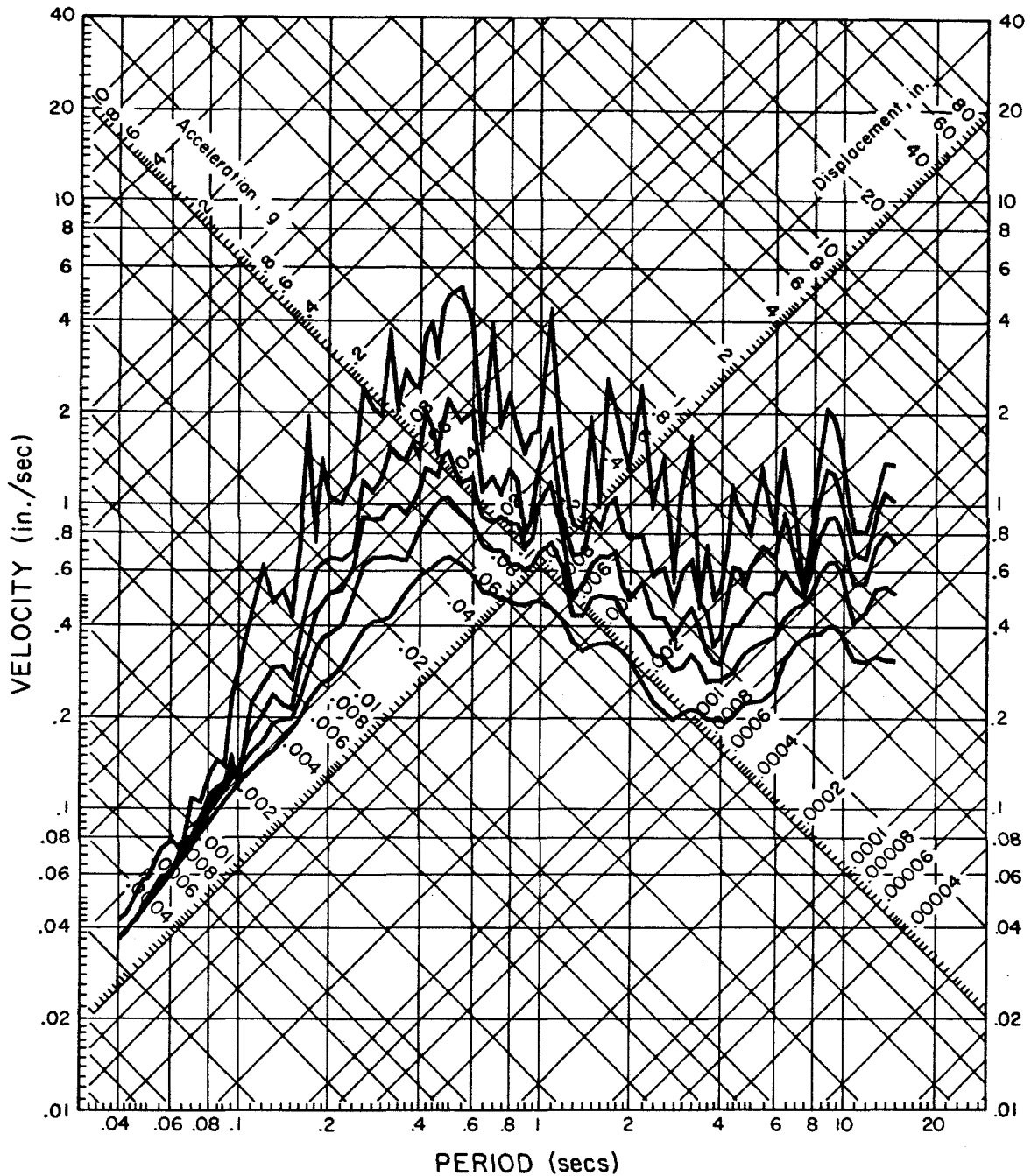


RESPONSE SPECTRUM

NORTHERN CALIFORNIA EARTHQUAKE JUN 5, 1960 - 1718 PST

111U308 60.002.0 CITY HALL, FERNDALE, CALIFORNIA COMP UP

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



NORTHERN CALIFORNIA EARTHQUAKE JUN 5, 1960 - 1718 PST
 IIIU308 60.002.0 CITY HALL, FERNDALE, CALIFORNIA COMP UP

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

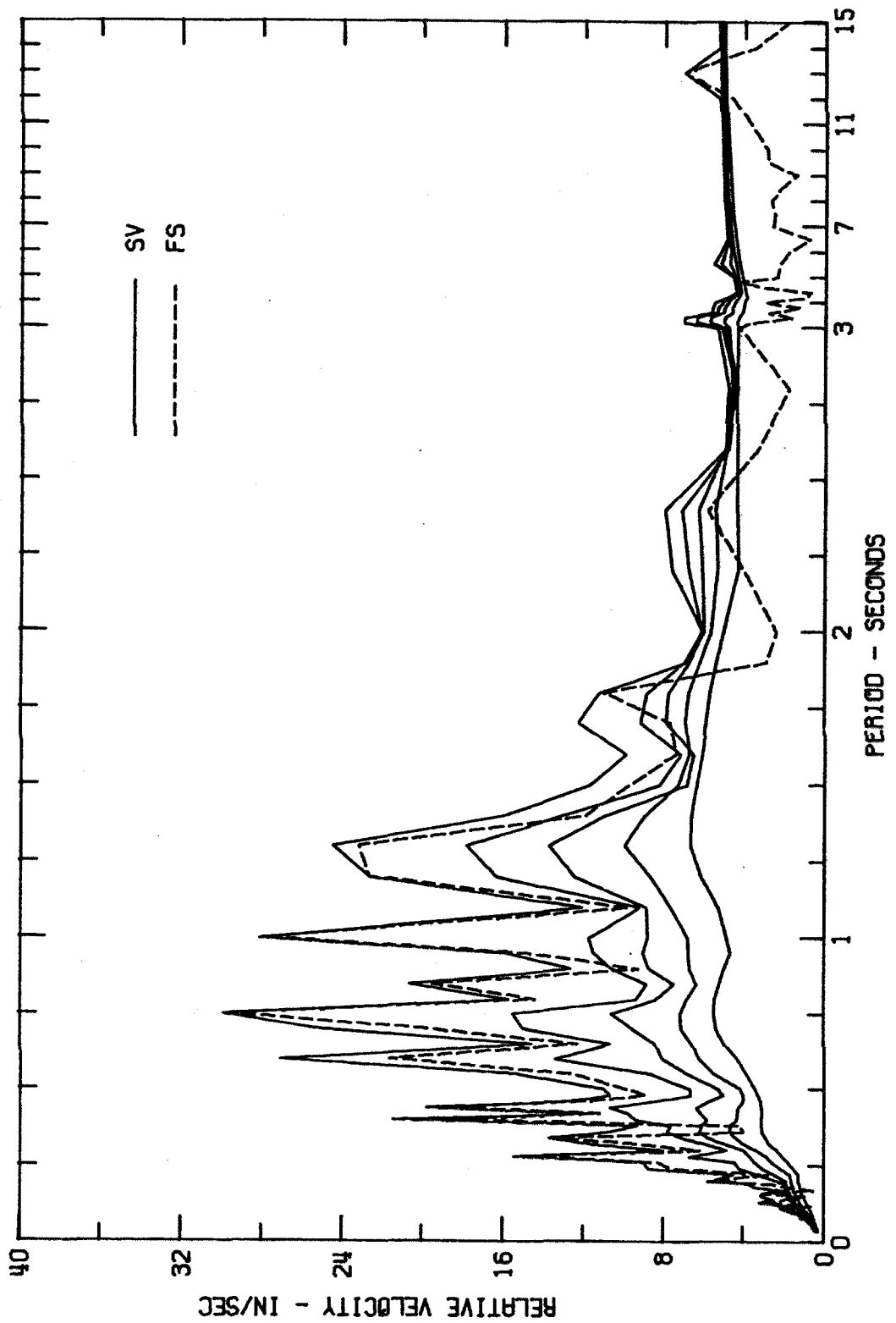
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0.044	695-5	331-6	149-4	175-4	473-4	285-6	859-5	150-4	407-4	283-6	855-5	149-4	405-4	284-6	825-5	150-4	405-4
0.046	144-4	379-6	233-4	183-4	518-4	307-6	106-4	148-4	419-4	313-6	976-5	151-4	428-4	314-6	922-5	152-4	429-4
0.048	176-4	432-6	248-4	192-4	566-4	357-6	117-4	158-4	467-4	350-6	107-4	155-4	458-4	347-6	102-4	154-4	454-4
0.050	159-4	457-6	231-4	186-4	574-4	390-6	126-4	160-4	491-4	386-6	116-4	158-4	485-4	381-6	112-4	156-4	479-4
0.055	376-4	630-6	404-4	213-4	720-4	510-6	157-4	172-4	583-4	491-6	152-4	166-4	561-4	481-6	140-4	162-4	550-4
0.060	262-4	737-6	455-4	209-4	772-4	565-6	219-4	160-4	592-4	590-6	186-4	167-4	618-4	592-6	172-4	168-4	620-4
0.065	164-4	720-6	374-4	174-4	696-4	788-6	250-4	191-4	762-4	758-6	231-4	183-4	732-4	724-6	212-4	176-4	700-4
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0.080	614-4	164-5	880-4	262-4	128-3	139-5	490-4	223-4	109-3	130-5	414-4	216-4	112-3	142-5	403-4	205-4	105-3
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0.090	118-3	197-5	120-3	249-4	137-3	172-5	587-4	218-4	120-3	172-5	475-4	217-4	120-3	165-5	451-4	208-4	115-3
0.095	173-3	357-5	201-3	404-4	236-3	221-5	786-4	250-4	146-3	200-5	567-4	227-4	132-3	187-5	502-4	214-4	124-3
0.100	276-3	455-5	267-3	465-4	286-3	187-5	898-4	191-4	117-3	214-5	594-4	222-4	176-3	266-5	701-4	228-4	151-3
0.110	363-3	775-5	385-3	655-4	442-3	386-5	150-3	327-4	220-3	309-5	104-3	264-4	176-3	266-5	701-4	228-4	151-3
0.120	360-3	118-4	534-3	839-4	618-3	486-5	182-3	345-4	254-3	387-5	132-3	274-4	203-3	314-5	955-4	225-4	164-3
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0.150	444-4	103-4	417-3	471-4	434-3	634-5	236-3	286-4	265-3	505-5	171-3	230-4	211-3	469-5	147-3	217-4	196-3
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0.200	954-3	336-4	101-2	859-4	105-2	210-4	579-3	541-4	661-3	161-4	400-3	415-4	507-3	118-4	314-3	304-4	371-3
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0.300	188-2	929-4	193-2	105-3	194-2	581-4	111-2	661-4	121-2	426-4	851-3	491-4	894-3	316-4	660-3	368-4	661-3
0.320	343-2	180-3	352-2	179-3	353-2	773-4	144-2	768-4	151-2	495-4	901-3	497-4	973-3	338-4	636-3	340-4	663-3
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0.550	487-2	449-3	511-2	152-3	513-2	162-3	178-2	549-4	185-2	102-3	113-2	345-4	116-2	819-4	945-3	282-4	936-3
0.600	248-2	377-3	403-2	107-3	395-2	192-3	210-2	549-4	201-2	115-3	125-2	330-4	121-2	818-4	923-3	237-4	875-3
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IIIU308 60-002.0 CITY HALL, FERNDALE, CALIFORNIA COMP UP

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT										DAMPING = 5 PER CENT										DAMPING = 10 PER CENT										DAMPING = 20 PER CENT									
PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV										
0.75	928-3	218-3	185-2	397-4	183-2	128-3	108-2	234-4	107-2	107-3	911-3	197-4	903-3	835-4	726-3	156-4	700-3	578-4	533-3	118-4	484-3																		
0.80	191-2	289-3	239-2	462-4	227-2	164-3	131-2	263-4	129-2	109-3	100-2	176-4	859-3	803-4	765-3	132-4	631-3	612-4	531-3	110-4	480-3																		
0.85	485-3	238-3	179-2	337-4	176-2	160-3	126-2	228-4	118-2	115-3	925-3	165-4	856-3	851-4	720-3	122-4	629-3	631-4	533-3	101-4	466-3																		
0.90	121-2	211-3	145-2	267-4	170-2	114-3	836-3	144-4	796-3	102-3	823-3	129-4	715-3	871-4	748-3	112-4	608-3	663-4	563-3	948-5	463-3																		
0.95	618-3	258-3	170-2	292-4	170-2	136-3	978-3	154-4	903-3	117-3	899-3	133-4	774-3	950-4	778-3	109-4	628-3	718-4	577-3	891-5	474-3																		
1.00	102-2	276-3	173-2	282-4	173-2	207-3	125-2	211-4	130-2	156-3	102-2	161-4	986-3	109-3	809-3	115-4	689-3	765-4	614-3	847-5	480-3																		
1.10	405-2	718-3	408-2	607-4	410-2	303-3	196-2	256-4	173-2	205-3	139-2	174-4	117-2	130-3	958-3	112-4	743-3	794-4	639-3	772-5	453-3																		
1.20	790-3	267-3	145-2	190-4	140-2	173-3	113-2	123-4	907-3	147-3	916-3	106-4	774-3	117-3	728-3	874-5	616-3	798-4	573-3	675-5	417-3																		
1.30	647-3	175-3	864-3	106-4	850-3	139-3	882-3	847-5	676-3	103-3	843-3	634-5	501-3	887-4	732-3	567-5	428-3	798-4	558-3	541-5	351-3																		
1.40	570-3	183-3	115-2	955-5	822-3	152-3	980-3	799-5	685-3	120-3	816-3	639-5	542-3	953-4	675-3	513-5	428-3	732-4	540-3	436-5	328-3																		
1.50	103-2	435-3	180-2	198-4	182-2	217-3	100-2	989-5	910-3	151-3	758-3	693-5	633-3	116-3	588-3	546-5	487-3	885-4	449-3	383-5	347-3																		
1.60	876-3	266-3	123-2	106-4	104-2	212-3	961-3	849-5	834-3	171-3	762-3	685-5	671-3	127-3	576-3	515-5	499-3	885-4	449-3	383-5	347-3																		
1.70	250-2	678-3	250-2	240-4	250-2	268-3	100-2	950-5	991-3	181-3	777-3	644-5	669-3	133-3	631-3	480-5	492-3	943-4	466-3	359-5	348-3																		
1.80	133-2	590-3	205-2	186-4	206-2	297-3	111-2	939-5	103-2	199-3	746-3	635-5	696-3	140-3	621-3	453-5	489-3	980-4	476-3	331-5	342-3																		
1.90	162-2	490-3	162-2	139-4	162-2	247-3	828-3	701-5	818-3	161-3	740-3	460-5	534-3	131-3	599-3	383-5	436-3	988-4	467-3	307-5	326-3																		
2.00	126-2	418-3	128-2	106-4	131-2	245-3	767-3	627-5	769-3	154-3	730-3	401-5	486-3	129-3	626-3	339-5	407-3	979-4	501-3	285-5	307-3																		
2.20	235-2	825-3	235-2	174-4	235-2	274-3	868-3	580-5	784-3	193-3	745-3	412-5	552-3	129-3	648-3	282-5	371-3	918-4	548-3	239-5	262-3																		
2.40	816-3	379-3	103-2	674-5	994-3	222-3	666-3	395-5	582-3	162-3	652-3	290-5	424-3	122-3	624-3	224-5	319-3	856-4	562-3	197-5	224-3																		
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2.80	568-3	262-3	654-3	342-5	588-3	210-3	640-3	324-5	671-3	162-3	623-3	212-5	364-3	127-3	599-3	170-5	285-3	872-4	556-3	156-5	195-3																		
3.00	607-3	550-3	113-2	625-5	115-2	289-3	703-3	329-5	607-3	199-3	653-3	227-5	417-3	138-3	600-3	161-5	290-3	982-4	547-3	156-5	205-3																		
3.20	138-2	819-3	159-2	818-5	160-2	334-3	672-3	334-5	657-3	232-3	616-3	233-5	456-3	163-3	572-3	166-5	321-3	108-3	529-3	154-5	212-3																		
3.40	902-4	262-3	664-3	232-5	484-3	257-3	559-3	228-5	476-3	213-3	525-3	189-5	394-3	161-3	517-3	153-5	298-3	113-3	505-3	147-5	209-3																		
3.60	411-3	405-3	774-3	320-5	708-3	252-3	552-3	199-5	441-3	188-3	478-3	149-5	328-3	149-3	457-3	133-5	261-3	113-3	479-3	137-5	198-3																		
3.80	127-3	295-3	605-3	209-5	488-3	207-3	554-3	147-5	343-3	183-3	495-3	130-5	303-3	159-3	426-3	116-5	262-3	118-3	459-3	124-5	195-3																		
4.00	198-3	335-3	591-3	214-5	527-3	234-3	527-3	150-5	367-3	190-3	480-3	122-5	298-3	167-3	423-3	110-5	262-3	124-3	446-3	112-5	194-3																		
4.20	593-3	471-3	797-3	273-5	705-3	324-3	581-3	188-5	485-3	237-3	448-3	138-5	355-3	181-3	422-3	107-5	272-3	129-3	442-3	937-6	201-3																		
4.40	104-2	787-3	113-2	416-5	112-2	435-3	582-3	230-5	621-3	282-3	477-3	149-5	402-3	246-3	444-3	111-5	306-3	155-3	451-3	884-6	212-3																		
4.60	861-3	710-3	960-3	343-5	970-3	446-3	639-3	215-5	609-3	293-3	495-3	142-5	401-3	224-3	460-3	110-5	322-3	168-3	458-3	856-6	221-3																		
4.80	625-3	677-3	905-3	300-5	887-3	408-3	558-3	181-5	534-3	330-3	504-3	147-5	432-3	246-3	472-3	110-5	334-3	178-3	464-3	845-6	224-3																		
5.00	461-3	640-3	786-3	261-5	804-3	496-3	602-3	203-5	623-3	363-3	528-3	149-5	457-3	266-3	495-3	111-5	351-3	198-3	468-3	857-6	226-3																		
5.50	120-2	113-2	130-2	383-5	129-2	636-3	704-3	215-5	726-3	447-3	560-3	152-5	510-3	307-3	515-3	106-5	364-3	450-3	872-6	245-3																			
6.00	377-3	797-3	852-3	226-5	834-3	638-3	706-3	181-5	668-3	486-3	565-3	138-5	509-3	348-3	487-3	100-5	423-3	420-3	860-6	307-3																			
6.50	132-2	153-2	148-2	371-5	148-2	950-3	958-3	230-5	918-3	619-3	617-3	150-5	598-3	438-3	487-3	107-5	455-3	426-3	900-6	344-3																			
7.00	967-3	107-2	967-3	224-5	967-3	742-3	747-3	155-5	666-3	586-3	587-3	123-5	526-3	507-3	502-3	109-5	469-3	434-3	914-6	363-3																			
7.50	377-3	640-3	726-3	116-5	536-3	622-3	668-3	113-5	521-3	594-3	617-3	109-5	497-3	560-3	540-3	106-5	453-3	468-3	901-6	373-3																			
8.00	675-3	104-2	925-3	167-5	821-3	926-3	864-3	148-5	727-3	777-3	769-3	124-5	610-3	656-3	629-3	109-5	515-3	475-3	488-3	901-6	373-3																		
8.50	955-3	189-2	132-2	267-5	139-2	138-2	111-2	196-5	102-2	107-2	888-3	153-5	798-3	802-3	662-3	117-5	593-3	507-3	509-3	854-6	375-3																		
9.00	205-2	293-2	205-2	370-5	205-2	185-2	135-2	234-5	129-2	128-2	908-3	163-5	898-3	920-3	646-3	114-5	644-3	567-3	523-3	788-6	396-3																		
9.50	169-2	289-2	183-2	327-5	191-2	189-2	127-2	121-5	125-2	136-2	991-3	156-5	905-3	974-3	705-3	114-5	644-3	599-3	532-3	750-6	396-3																		
10.00	118-2	251-2	149-2	257-5	157-2	167-2	112-2	171-5	105-2	126-2	914-3	131-5	795-3	934-3	691-3	985-6	587-3	598-3	536-3	699-6	376-3																		
11.00	495-3	142-2	929-3	120-5	816-3	120-2	848-3	101-5	685-3	956-3	746-3	820-6	566-3	714-3	616-3	636-6	408-3	539-3	535-3	536-6	307-3																		
12.00	813-3	155-2	813-3	110-5	812-3	126-2	661-3	899-6	662-3	105-2	622-3	751-6	551-3	845-3	558-3	612-6	442-3	579-3	526-3	449-6	303-3																		
13.00	102-2	211-2	102-2	128-5	102-2	185-2	870-3	112-5	898-3	150-2	717-3	914-6	727-3	108-2	544-3	670-6	524-3	653-3	514-3	429-6	315-3																		
14.00	136-2	303-2	136-2	158-5	136-2	242-2	111-2	126-5	108-2	179-2	871-3	942-6	806-3	119-2	621-3	636-6	536-3	686-3	502-3	400-6	308-3																		
15.00	134-2	320-2	134-2	145-5	134-2	243-2	105-2	110-5	102-2	178-2	802-3	817-6	747-3	121-2	601-3	574-6	507-3	731-3	489-3	372-6	306-3																		

RELATIVE VELOCITY RESPONSE SPECTRUM
CENTRAL CALIFORNIA EQ. AFTERSHOCK APR 8, 1961 - 2325 PST
111U309 61.002.0 PUBLIC LIBRARY, HOLLISTER, CALIFORNIA COMP N89W
DAMPING VALUES ARE 0. 2. 5. 10 AND 20 PERCENT OF CRITICAL

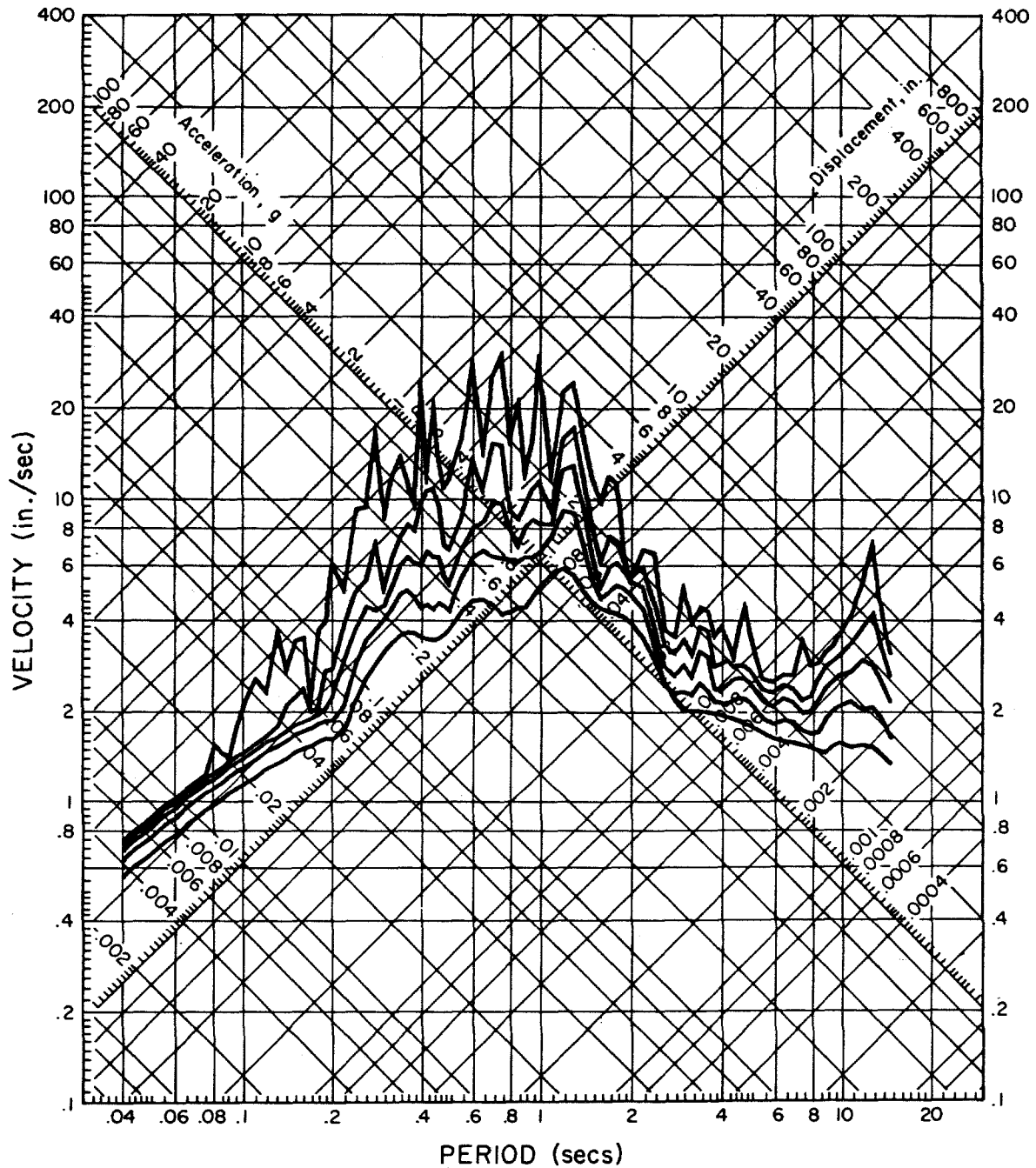


RESPONSE SPECTRUM

CENTRAL CALIFORNIA EQ. AFTERSHOCK APR 8, 1961 - 2325 PST

IIIU309 61.002.0 PUBLIC LIBRARY, HOLLISTER, CALIFORNIA COMP N89N

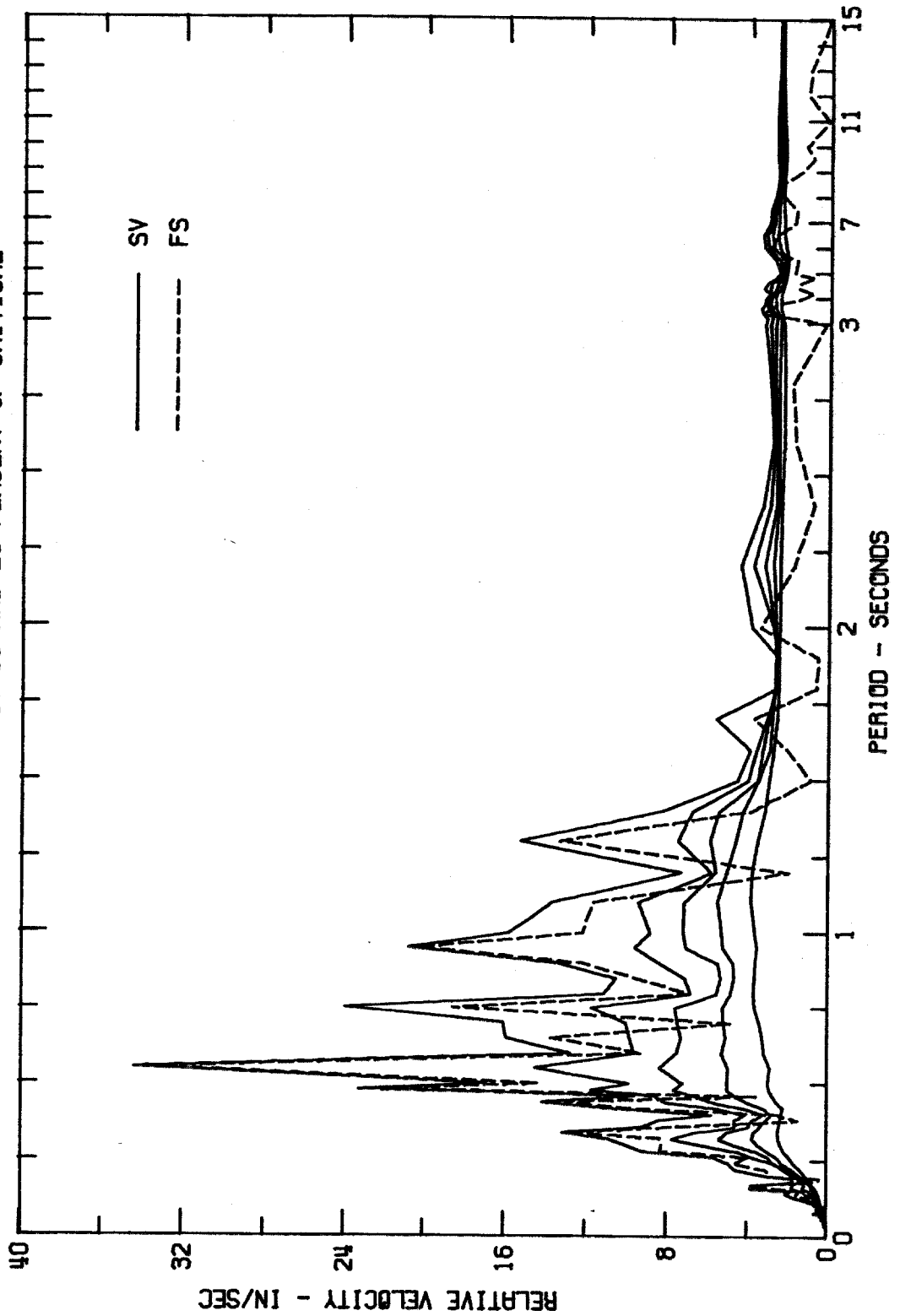
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

		DAMPING = 0 PER CENT				DAMPING = 2 PER CENT				DAMPING = 5 PER CENT				DAMPING = 10 PER CENT				DAMPING = 20 PER CENT			
PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.75	295-1	359-2	299-1	653-3	300-1	179-2	155-1	326-3	150-1	114-2	106-1	209-3	962-2	763-3	719-2	140-3	639-2	496-3	551-2	998-4	415-2
0.80	143-1	200-2	156-1	320-3	157-1	115-2	939-2	184-3	904-2	999-3	837-2	160-3	785-2	802-3	687-2	130-3	630-2	541-3	545-2	932-4	425-2
0.85	195-1	280-2	207-1	397-3	207-1	116-2	886-2	164-3	859-2	943-3	749-2	134-3	697-2	839-3	636-2	121-3	620-2	591-3	521-2	900-4	437-2
0.90	924-2	172-2	126-1	218-3	120-1	138-2	106-1	175-3	970-2	116-2	877-2	147-3	810-2	922-3	673-2	118-3	640-2	631-3	496-2	865-4	440-2
0.95	148-1	233-2	158-1	264-3	154-1	162-2	115-1	184-3	107-1	129-2	907-2	147-3	854-2	971-3	677-2	112-3	642-2	717-3	468-2	873-4	474-2
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RELATIVE VELOCITY RESPONSE SPECTRUM
CENTRAL CALIFORNIA EQ. AFTERSHOCK APR 8, 1961 - 2325 PST
111U309 61.002.0 PUBLIC LIBRARY, HOLLISTER, CALIFORNIA COMP S01W
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

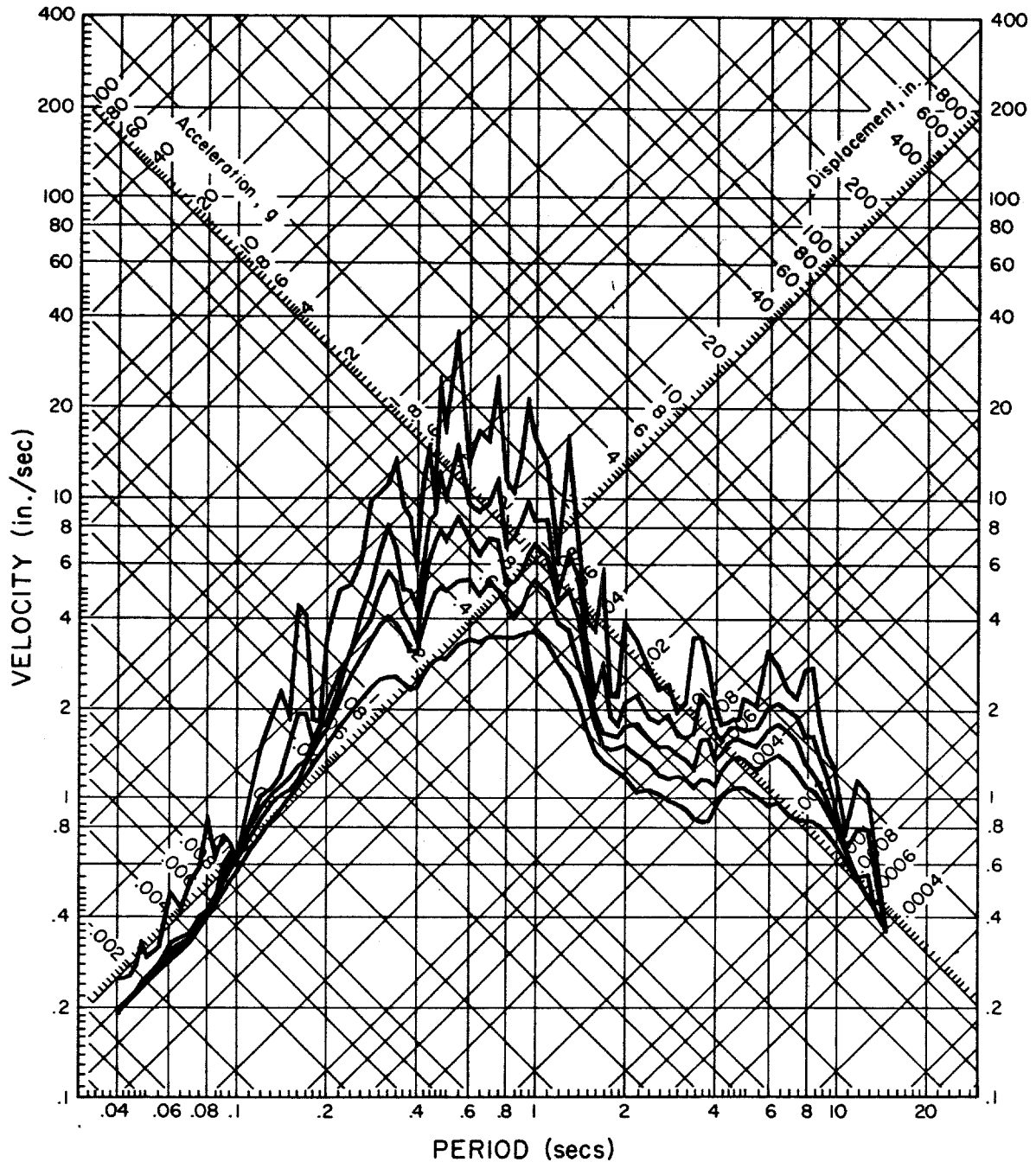


RESPONSE SPECTRUM

CENTRAL CALIFORNIA EQ. AFTERSHOCK APR 8, 1961 - 2325 PST

IIU309 61.002.0 PUBLIC LIBRARY, HOLLISTER, CALIFORNIA COMP S01W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



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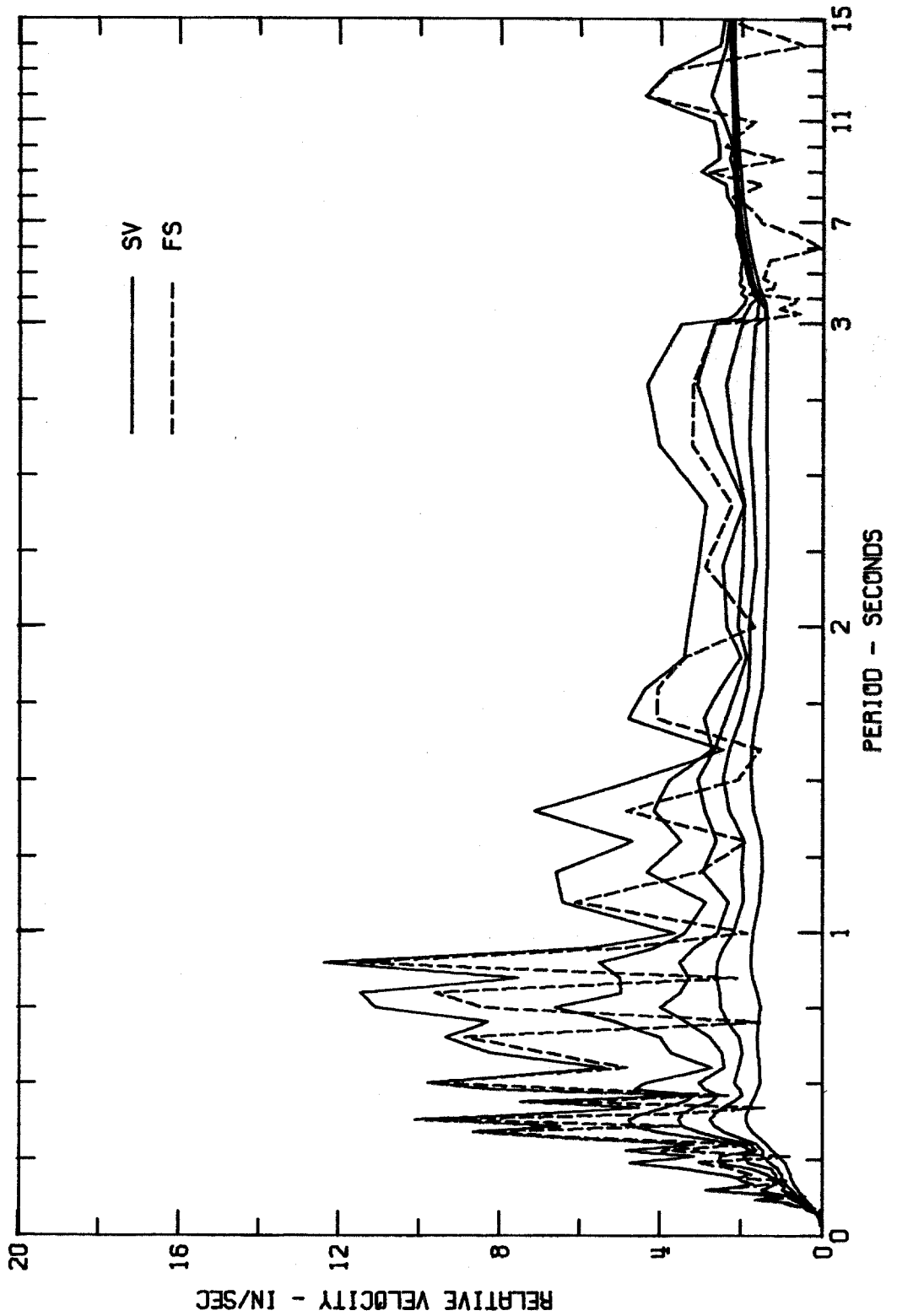
THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV								
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THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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0.90	121-1	193-2	134-1	244-3	134-1	121-2	841-2	153-3	846-2	811-3	551-2	102-3	566-2	614-3	472-2	793-4	429-2	505-3	366-2	693-4	352-2
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CENTRAL CALIFORNIA EQ. AFTERSHOCK APR 8, 1961 - 2325 PST
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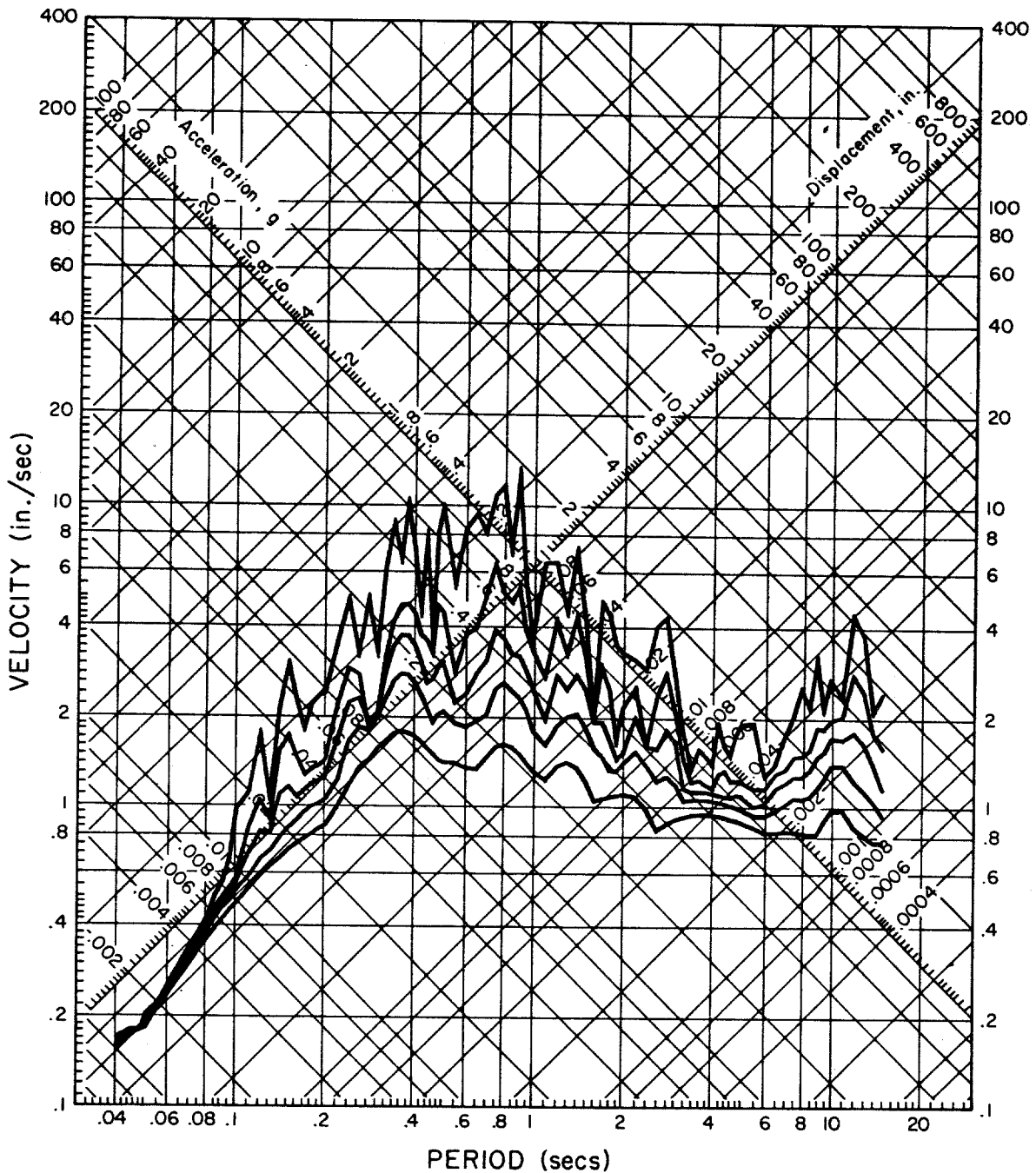


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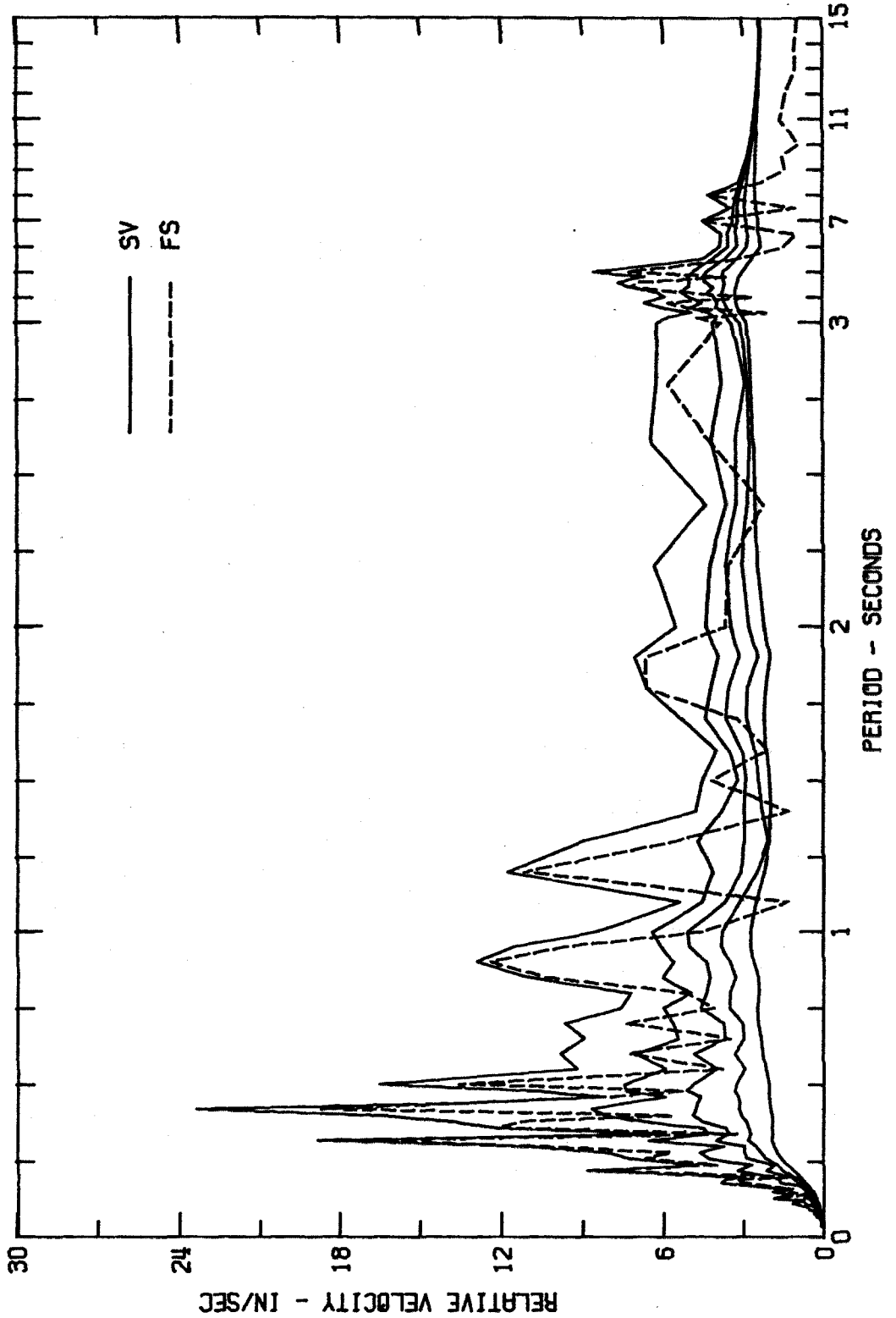
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THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
0.75	844-2	129-2	111-1	235-3	108-1	762-3	662-2	139-3	638-2	462-3	400-2	845-4	387-2	294-3	251-2	544-4	246-2	187-3	153-2	369-4	156-2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	

RELATIVE VELOCITY RESPONSE SPECTRUM
PUGET SOUND, WASH., EARTHQUAKE APR 29, 1965 - 0728 PST
111U310 65.003.0 FEDERAL OFFICE BUILDING, SEATTLE, WASHINGTON COMP S32E
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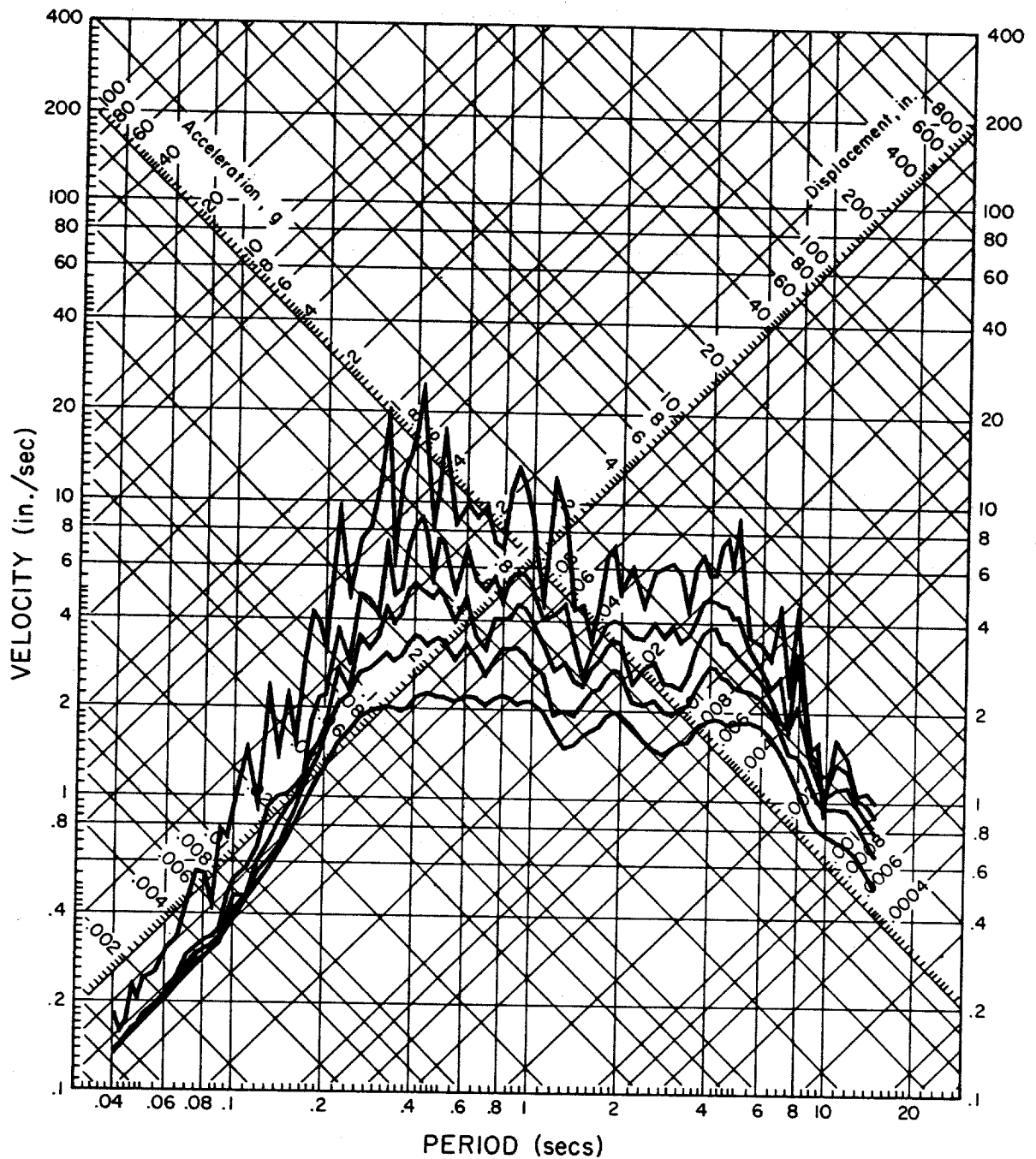


RESPONSE SPECTRUM

PUGET SOUND, WASH., EARTHQUAKE APR 29, 1965 - 0728 PST

111U310 65.003.0 FEDERAL OFFICE BUILDING, SEATTLE, WASHINGTON COMP S32E

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



PUGET SOUND, WASH., EARTHQUAKE APR 29, 1965 - 0728 PST

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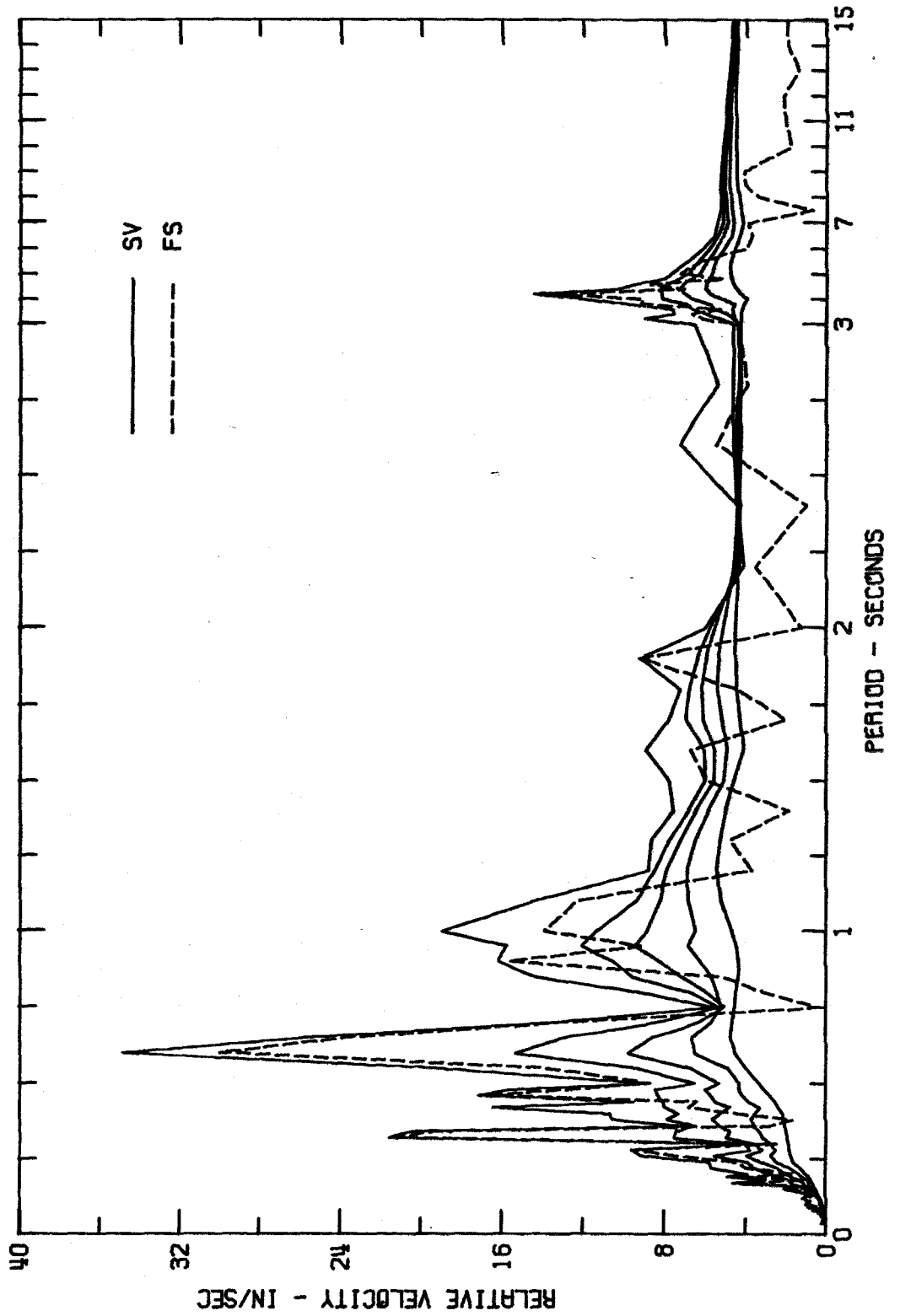
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0.060	990-4	287-5	168-3	816-4	300-3	203-5	703-4	578-4	213-3	194-5	567-4	552-4	204-3	193-5	541-4	551-4	202-3	194-5	526-4	555-4	203-3	
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THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	DAMPING = 0 PER CENT	DAMPING = 2 PER CENT	DAMPING = 5 PER CENT	DAMPING = 10 PER CENT	DAMPING = 20 PER CENT
0.75	410-2	867-3	759-2	157-3	727-2	664-3	601-2	121-3	556-2	479-3	462-2	873-4	401-2	348-3	351-2	649-4	291-2	255-3	250-2	512-4	214-2	
0.80	516-2	889-3	723-2	142-3	698-2	582-3	500-2	933-4	457-2	508-3	440-2	819-4	399-2	403-3	351-2	663-4	316-2	278-3	245-2	498-4	218-2	
0.85	103-1	147-2	110-1	209-3	109-1	751-3	606-2	106-3	555-2	545-3	427-2	776-4	403-2	427-3	331-2	621-4	315-2	291-3	247-2	465-4	215-2	
0.90	124-1	186-2	129-1	235-3	129-1	828-3	566-2	104-3	578-2	645-3	443-2	820-4	450-2	455-3	353-2	592-4	318-2	293-3	265-2	418-4	205-2	
0.95	965-2	172-2	115-1	195-3	113-1	856-3	610-2	972-4	566-2	661-3	504-2	753-4	437-2	461-3	381-2	536-4	305-2	317-3	273-2	396-4	210-2	
1.00	454-2	145-2	856-2	149-3	916-2	843-3	642-2	864-4	529-2	642-3	510-2	660-4	403-2	448-3	380-2	472-4	281-2	334-3	273-2	380-4	210-2	
1.10	132-2	816-3	537-2	689-4	466-2	699-3	454-2	591-4	399-2	578-3	367-2	492-4	330-2	456-3	313-2	398-4	260-2	341-3	254-2	329-4	194-2	
1.20	112-1	226-2	118-1	160-3	118-1	796-3	415-2	566-4	417-2	511-3	311-2	364-4	267-2	361-3	251-2	266-4	189-2	317-3	223-2	264-4	166-2	
1.30	555-2	188-2	901-2	113-3	910-2	933-3	471-2	565-4	451-2	590-3	295-2	359-4	285-2	404-3	209-2	254-4	195-2	304-3	202-2	212-4	147-2	
1.40	131-2	967-3	478-2	504-4	434-2	735-3	380-2	384-4	330-2	551-3	298-2	289-4	247-2	422-3	231-2	224-4	189-2	335-3	198-2	190-4	150-2	
1.50	420-2	107-2	454-2	488-4	450-2	610-3	322-2	277-4	255-2	567-3	291-2	258-4	237-2	497-3	246-2	229-4	208-2	385-3	206-2	182-4	161-2	
1.60	208-2	867-3	399-2	346-4	340-2	792-3	355-2	316-4	311-2	697-3	306-2	280-4	274-2	578-3	259-2	236-4	227-2	428-3	217-2	185-4	168-2	
1.70	323-2	120-2	536-2	428-4	447-2	940-3	442-2	332-4	347-2	791-3	365-2	281-4	292-2	631-3	290-2	230-4	233-2	469-3	223-2	195-4	173-2	
1.80	665-2	190-2	665-2	602-4	665-2	111-2	420-2	352-4	389-2	928-3	355-2	295-4	324-2	731-3	285-2	241-4	255-2	539-3	217-2	201-4	188-2	
1.90	670-2	215-2	712-2	611-4	714-2	121-2	394-2	343-4	400-2	103-2	316-2	295-4	341-2	819-3	248-2	242-4	270-2	588-3	202-2	199-4	194-2	
2.00	365-2	158-2	554-2	405-4	498-2	125-2	439-2	321-4	393-2	106-2	345-2	273-4	334-2	845-3	280-2	224-4	265-2	614-3	224-2	190-4	192-2	
2.20	354-2	213-2	637-2	451-4	609-2	123-2	423-2	260-4	351-2	853-3	366-2	182-4	243-2	738-3	308-2	163-4	210-2	613-3	249-2	161-4	175-2	
2.40	222-2	171-2	438-2	304-4	449-2	132-2	362-2	235-4	347-2	105-2	325-2	188-4	276-2	789-3	283-2	144-4	206-2	597-3	256-2	136-4	156-2	
2.60	417-2	242-2	645-2	367-4	587-2	162-2	417-2	246-4	393-2	119-2	327-2	181-4	288-2	888-3	278-2	138-4	214-2	608-3	261-2	120-4	146-2	
2.80	582-2	270-2	625-2	353-4	607-2	157-2	378-2	205-4	353-2	109-2	291-2	143-4	245-2	881-3	284-2	118-4	197-2	630-3	272-2	110-4	141-2	
3.00	379-2	300-2	622-2	341-4	629-2	184-2	411-2	209-4	385-2	116-2	342-2	133-4	243-2	917-3	311-2	108-4	192-2	711-3	286-2	998-5	148-2	
3.20	472-2	294-2	580-2	294-4	578-2	173-2	395-2	173-4	339-2	120-2	358-2	121-4	235-2	103-2	331-2	108-4	203-2	786-3	299-2	924-5	154-2	
3.40	211-2	237-2	491-2	210-4	439-2	193-2	430-2	171-4	357-2	144-2	366-2	128-4	266-2	112-2	345-2	104-4	207-2	843-3	310-2	899-5	155-2	
3.60	514-2	351-2	605-2	277-4	613-2	233-2	499-2	184-4	408-2	186-2	401-2	147-4	325-2	135-2	358-2	108-4	235-2	972-3	319-2	855-5	169-2	
3.80	583-2	406-2	669-2	287-4	671-2	283-2	452-2	200-4	468-2	220-2	395-2	158-4	364-2	156-2	368-2	113-4	259-2	108-2	325-2	848-5	186-2	
4.00	261-2	366-2	593-2	234-4	576-2	302-2	506-2	193-4	474-2	241-2	407-2	155-4	380-2	178-2	374-2	117-4	280-2	117-2	329-2	839-5	184-2	
4.20	530-2	386-2	625-2	224-4	578-2	314-2	534-2	182-4	470-2	254-2	430-2	149-4	380-2	185-2	375-2	112-4	277-2	124-2	329-2	825-5	186-2	
4.40	725-2	512-2	728-2	270-4	731-2	319-2	504-2	168-4	455-2	238-2	409-2	128-4	340-2	181-2	370-2	993-5	258-2	129-2	326-2	793-5	185-2	
4.60	687-2	563-2	770-2	272-4	769-2	330-2	498-2	159-4	450-2	247-2	439-2	120-4	338-2	186-2	366-2	932-5	254-2	131-2	320-2	747-5	178-2	
4.80	361-2	474-2	668-2	210-4	621-2	316-2	505-2	140-4	414-2	244-2	448-2	109-4	319-2	184-2	376-2	860-5	241-2	137-2	312-2	743-5	179-2	
5.00	734-2	682-2	862-2	279-4	857-2	332-2	488-2	136-4	418-2	242-2	437-2	999-5	304-2	188-2	372-2	822-5	236-2	144-2	301-2	734-5	181-2	
5.50	322-2	309-2	447-2	104-4	453-2	279-2	412-2	944-5	318-2	240-2	367-2	820-5	275-2	202-2	319-2	733-5	231-2	159-2	268-2	688-5	182-2	
6.00	148-2	322-2	384-2	917-5	338-2	264-2	354-2	752-5	276-2	240-2	321-2	707-5	251-2	211-2	287-2	662-5	221-2	168-2	235-2	619-5	176-2	
6.50	103-2	307-2	378-2	745-5	297-2	245-2	355-2	598-5	237-2	229-2	324-2	580-5	221-2	205-2	281-2	567-5	198-2	169-2	241-2	543-5	163-2	
7.00	441-2	491-2	448-2	102-4	441-2	287-2	335-2	601-5	258-2	207-2	315-2	457-5	186-2	190-2	286-2	469-5	171-2	163-2	242-2	480-5	146-2	
7.50	101-2	283-2	343-2	516-5	237-2	204-2	332-2	372-5	171-2	207-2	315-2	380-5	173-2	171-2	291-2	382-5	143-2	153-2	251-2	421-5	128-2	
8.00	419-2	545-2	429-2	872-5	428-2	376-2	321-2	601-5	295-2	261-2	309-2	419-5	205-2	179-2	289-2	311-5	141-2	143-2	254-2	368-5	112-2	
8.50	232-2	320-2	314-2	453-5	236-2	276-2	308-2	391-5	204-2	230-2	299-2	327-5	170-2	174-2	284-2	255-5	129-2	132-2	255-2	323-5	977-3	
9.00	140-2	211-2	298-2	267-5	147-2	207-2	294-2	262-5	145-2	192-2	288-2	243-5	134-2	160-2	277-2	213-5	111-2	122-2	254-2	285-5	854-3	
9.50	155-2	236-2	284-2	268-5	156-2	203-2	282-2	230-5	134-2	177-2	278-2	202-5	117-2	151-2	270-2	181-5	999-3	121-2	252-2	254-5	800-3	
10.00	926-3	147-2	273-2	150-5	926-3	163-2	272-2	167-5	102-2	162-2	269-2	166-5	101-2	149-2	264-2	157-5	939-3	123-2	250-2	228-5	773-3	
11.00	159-2	279-2	257-2	236-5	159-2	232-2	257-2	196-5	132-2	191-2	256-2	162-5	109-2	165-2	253-2	142-5	942-3	128-2	245-2	190-5	731-3	
12.00	138-2	264-2	247-2	188-5	138-2	240-2	248-2	171-5	126-2	212-2	247-2	152-5	111-2	177-2	246-2	130-5	931-3	133-2	240-2	163-5	701-3	
13.00	103-2	215-2	242-2	130-5	104-2	210-2	242-2	127-5	101-2	198-2	242-2	121-5	957-3	173-2	241-2	110-5	839-3	133-2	237-2	143-5	647-3	
14.00	106-2	238-2	239-2	124-5	107-2	216-2	239-2	113-5	971-3	191-2	239-2	100-5	859-3	162-2	238-2	905-6	729-3	127-2	235-2	128-5	572-3	
15.00	928-3	234-2	238-2	106-5	984-3	210-2	238-2	961-6	883-3	185-2	237-2	855-6	774-3	156-2	236-2	743-6	654-3	121-2	233-2	116-5	510-3	

RELATIVE VELOCITY RESPONSE SPECTRUM
PUGET SOUND, WASH., EARTHQUAKE APR 29, 1965 - 0728 PST
111U310 65.003.0 FEDERAL OFFICE BUILDING, SEATTLE, WASHINGTON COMP S58W
DAMPING VALUES ARE 0. 2. 5. 10 AND 20 PERCENT OF CRITICAL

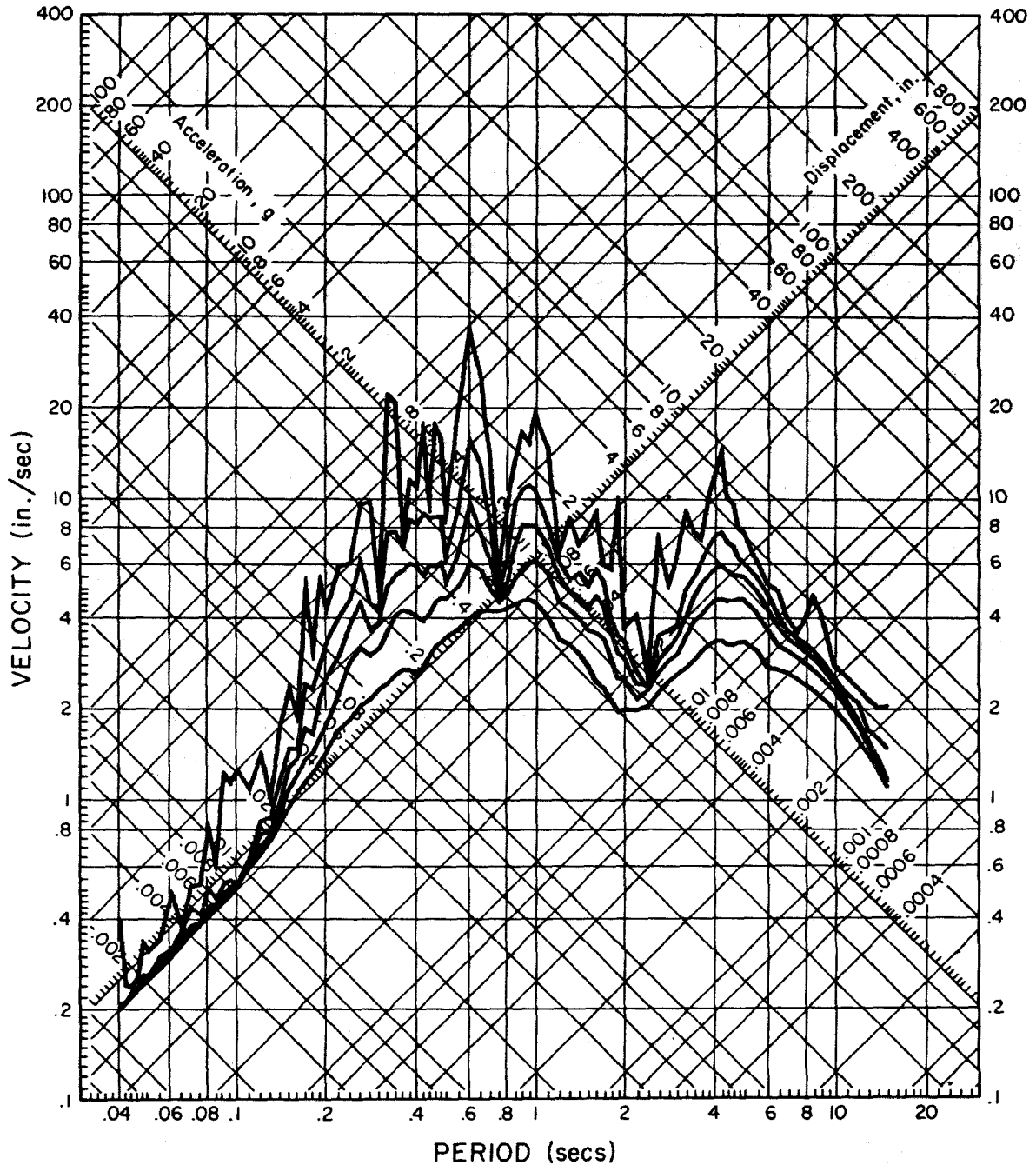


RESPONSE SPECTRUM

PUGET SOUND, WASH., EARTHQUAKE APR 29, 1965 - 0728 PST

111U310 65.003.0 FEDERAL OFFICE BUILDING, SEATTLE, WASHINGTON COMP 558W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



PUGET SOUND, WASH., EARTHQUAKE APR 29, 1965 - 0728 PST

IIII310 65.003.0 FEDERAL OFFICE BUILDING, SEATTLE, WASHINGTON COMP S58W

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.040	189-3	246-5	237-3	157-3	387-3	129-5	397-4	826-4	203-3	125-5	390-4	803-4	197-3	124-5	363-4	796-4	195-3
0.042	912-4	150-5	105-3	905-4	233-4	136-5	502-4	793-4	204-3	138-5	438-4	802-4	207-3	137-5	403-4	799-4	206-3
0.044	290-4	162-5	673-4	855-4	231-3	156-5	475-4	826-4	223-3	153-5	490-4	811-4	219-3	152-5	454-4	803-4	217-3
0.046	554-4	185-5	921-4	895-4	252-3	168-5	663-4	816-4	230-3	169-5	565-4	818-4	231-3	166-5	510-4	807-4	228-3
0.048	844-4	249-5	163-3	110-3	326-3	193-5	777-4	860-4	253-3	186-5	661-4	825-4	243-3	182-5	572-4	809-4	238-3
0.050	118-3	241-5	147-3	987-4	303-3	200-5	797-4	820-4	251-3	201-5	729-4	822-4	252-3	197-5	630-4	809-4	248-3
0.055	747-4	292-5	157-3	990-4	334-3	257-5	108-3	868-4	293-3	240-5	872-4	815-4	274-3	234-5	746-4	791-4	267-3
0.060	972-4	452-5	262-3	128-3	474-3	294-5	108-3	835-4	307-3	288-5	886-4	820-4	302-3	280-5	835-4	797-4	293-3
0.065	104-3	384-5	171-3	930-4	371-3	370-5	116-3	895-4	357-3	355-5	108-3	863-4	344-3	339-5	102-3	821-4	328-3
0.070	282-3	560-5	372-3	117-3	503-3	475-5	186-3	991-4	426-3	412-5	151-3	863-4	370-3	394-5	129-3	824-4	354-3
0.075	223-4	607-5	244-3	110-3	509-3	481-5	185-3	877-4	403-3	454-5	171-3	825-4	380-3	449-5	153-3	818-4	376-3
0.080	583-3	101-4	688-3	161-3	793-3	629-5	253-3	100-3	494-3	543-5	204-3	869-4	427-3	518-5	174-3	828-4	406-3
0.085	312-3	805-5	340-3	113-3	595-3	615-5	267-3	871-4	454-3	592-5	224-3	841-4	437-3	579-5	190-3	821-4	428-3
0.090	815-3	170-4	941-3	215-3	119-2	734-5	231-3	926-4	512-3	681-5	205-3	859-4	475-3	655-5	191-3	827-4	457-3
0.095	393-3	167-4	802-3	190-3	111-2	798-5	309-3	905-4	527-3	754-5	194-3	858-4	499-3	728-5	198-3	830-4	481-3
0.100	903-3	193-4	104-2	198-3	121-2	807-5	321-3	826-4	507-3	811-5	226-3	828-4	510-3	803-5	219-3	819-4	503-3
0.110	805-3	185-4	872-3	157-3	106-2	110-4	347-3	933-4	630-3	106-4	291-3	903-4	609-3	102-4	279-3	869-4	586-3
0.120	939-3	264-4	121-2	187-3	138-2	159-4	423-3	113-3	833-3	144-4	385-3	102-3	757-3	131-4	347-3	934-4	686-3
0.130	604-3	204-4	819-3	123-3	186-3	176-4	596-3	107-3	853-3	157-4	477-3	955-4	763-3	155-4	419-3	945-4	751-3
0.140	102-2	381-4	128-2	199-3	171-2	254-4	719-3	132-3	114-2	213-4	607-3	111-3	958-3	193-4	534-3	101-3	866-3
0.150	168-2	549-4	212-2	249-3	230-2	345-4	118-2	157-3	144-2	300-4	794-3	136-3	125-2	253-4	660-3	116-3	106-2
0.160	428-2	134-3	466-2	274-3	495-2	640-4	176-2	225-3	236-2	454-4	114-2	162-3	168-2	360-4	850-3	129-3	133-2
0.170	952-3	868-4	297-2	274-3	303-2	649-4	191-2	204-3	226-2	462-4	125-2	147-3	161-2	403-4	950-3	129-3	140-2
0.180	413-2	157-3	494-2	447-3	522-2	824-4	227-2	234-3	272-2	640-4	173-2	183-3	211-2	474-4	122-2	135-3	150-2
0.190	156-2	131-3	388-2	336-3	412-2	104-3	283-2	265-3	327-2	788-4	202-2	200-3	294-2	555-4	135-2	142-3	174-2
0.200	402-2	204-3	568-2	432-3	585-2	137-3	362-2	290-3	391-2	103-3	250-2	220-3	373-2	772-4	186-2	168-3	220-2
0.210	454-2	227-3	576-2	404-3	596-2	172-3	393-2	304-3	451-2	142-3	327-2	251-3	373-2	107-3	249-2	191-3	280-2
0.220	747-2	388-3	918-2	587-3	937-2	251-3	556-2	382-3	607-2	181-3	398-2	277-3	439-2	128-3	278-2	197-3	310-2
0.230	948-2	428-3	962-2	559-3	962-2	193-3	379-2	253-3	435-2	159-3	316-2	209-3	357-2	131-3	255-2	172-3	294-2
0.240	247-2	226-3	429-2	257-3	473-2	200-3	400-2	227-3	420-2	179-3	357-2	206-3	376-2	148-3	283-2	169-3	309-2
0.250	212-1	110-2	216-1	110-2	216-1	386-3	752-2	384-3	758-2	256-3	496-2	254-3	503-2	181-3	319-2	182-3	357-2
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0.270	277-2	411-3	709-2	324-3	718-2	385-3	647-2	303-3	673-2	322-3	528-2	256-3	597-2	237-3	363-2	191-3	414-2
0.280	165-2	685-3	105-1	485-3	113-1	506-3	786-2	358-3	837-2	361-3	561-2	257-3	597-2	246-3	374-2	179-3	407-2
0.290	433-2	685-3	106-1	438-3	107-1	514-3	724-2	328-3	808-2	371-3	525-2	239-3	583-2	254-3	354-2	164-3	399-2
0.300	679-2	110-2	164-1	639-3	165-1	584-3	793-2	339-3	874-2	361-3	473-2	209-3	540-2	254-3	329-2	150-3	381-2
0.310	639-2	673-3	941-2	355-3	962-2	593-3	804-2	313-3	847-2	411-3	545-2	217-3	587-2	282-3	385-2	151-3	403-2
0.320	164-1	125-2	171-1	607-3	171-1	624-3	829-2	302-3	853-2	425-3	568-2	205-3	580-2	323-3	418-2	159-3	441-2
0.330	125-1	118-2	155-1	527-3	155-1	655-3	840-2	291-3	858-2	459-3	596-2	205-3	601-2	348-3	433-2	158-3	455-2
0.340	866-2	693-3	869-2	283-3	871-2	497-3	648-2	203-3	625-2	409-3	530-2	169-3	514-2	359-3	433-2	150-3	452-2
0.350	138-1	169-2	195-1	574-3	194-1	815-3	936-2	276-3	931-2	564-3	675-2	191-3	645-2	439-3	491-2	152-3	502-2
0.360	300-1	335-2	348-1	952-3	351-1	146-2	153-1	416-3	153-1	908-3	981-2	259-3	951-2	568-3	653-2	164-3	594-2
0.370	233-1	263-2	255-1	638-3	254-1	132-2	128-1	320-3	128-1	785-3	853-2	190-3	759-2	587-3	661-2	145-3	568-2
0.380	125-1	147-2	131-1	306-3	131-1	896-3	821-2	187-3	804-2	679-3	625-2	143-3	609-2	541-3	564-2	116-3	486-2
0.390																	
0.400																	
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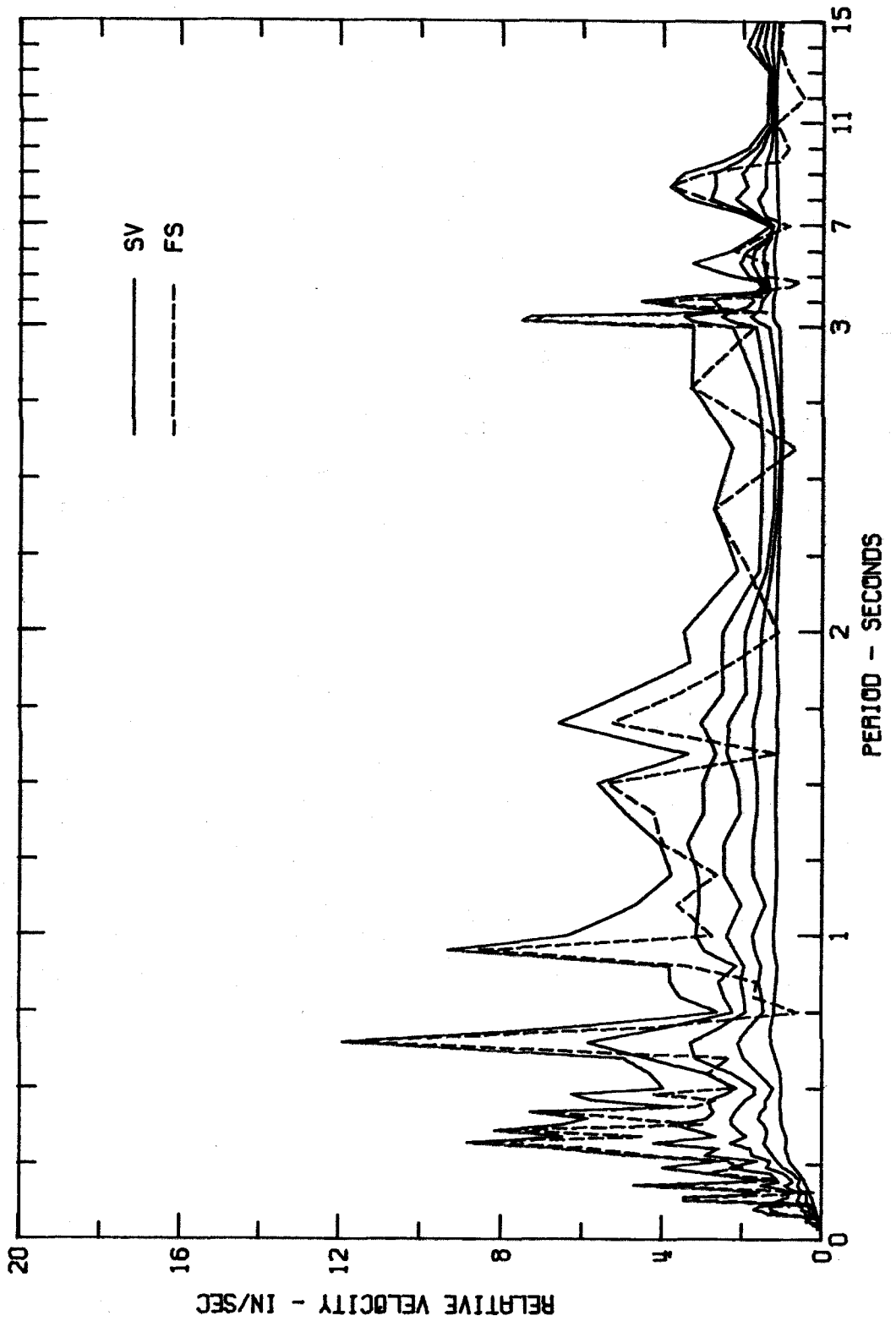
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111U310 65.003.0 FEDERAL OFFICE BUILDING, SEATTLE, WASHINGTON COMP S58W

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	DAMPING = 0 PER CENT	DAMPING = 2 PER CENT	DAMPING = 5 PER CENT	DAMPING = 10 PER CENT	DAMPING = 20 PER CENT
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0.80	316-2	117-2	917-2	187-3	920-3	788-3	675-2	125-3	619-2	660-3	592-2	106-3	518-2	598-3	541-2	983-4	470-2	535-3	449-2	940-4	420-2	
0.85	518-2	178-2	144-1	253-3	132-1	129-2	962-2	183-3	957-2	928-3	717-2	132-3	685-2	722-3	571-2	104-3	533-2	589-3	439-2	925-4	435-2	
0.90	156-1	233-2	161-1	294-3	162-1	150-2	105-1	190-3	105-1	115-2	825-2	146-3	805-2	823-3	622-2	107-3	575-2	637-3	432-2	904-4	444-2	
0.95	910-2	227-2	157-1	257-3	150-1	164-2	120-1	186-3	108-1	120-2	941-2	137-3	796-2	909-3	680-2	106-3	601-2	678-3	446-2	868-4	448-2	
1.00	138-1	300-2	189-1	307-3	188-1	166-2	113-1	170-3	104-1	127-2	882-2	130-3	799-2	965-3	645-2	101-3	606-2	699-3	471-2	822-4	439-2	
1.10	122-1	251-2	142-1	212-3	143-1	140-2	933-2	119-3	805-2	119-2	816-2	102-3	684-2	964-3	686-2	843-4	550-2	693-3	524-2	688-4	393-2	
1.20	368-2	122-2	872-2	871-4	642-2	114-2	842-2	816-4	601-2	102-2	784-2	728-4	534-2	844-3	685-2	617-4	442-2	631-3	542-2	538-4	330-2	
1.30	480-2	175-2	860-2	106-3	847-2	108-2	772-2	655-4	522-2	993-3	717-2	606-4	480-2	865-3	645-2	541-4	418-2	660-3	526-2	454-4	319-2	
1.40	187-2	153-2	755-2	802-4	690-2	123-2	679-2	644-4	553-2	102-2	640-2	539-4	460-2	875-3	581-2	474-4	392-2	664-3	498-2	402-4	298-2	
1.50	594-2	184-2	777-2	840-4	774-2	118-2	598-2	540-4	497-2	100-2	552-2	459-4	419-2	848-3	506-2	402-4	355-2	645-3	457-2	347-4	270-2	
1.60	675-2	225-2	894-2	902-4	887-2	144-2	604-2	579-4	568-2	117-2	554-2	472-4	460-2	890-3	493-2	370-4	349-2	613-3	412-2	305-4	241-2	
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2.40	103-2	973-3	445-2	172-4	254-2	877-3	444-2	156-4	229-2	896-3	444-2	161-4	234-2	864-3	443-2	160-4	226-2	767-3	430-2	158-4	200-2	
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10.00	176-2	435-2	513-2	445-5	273-2	398-2	507-2	410-5	250-2	382-2	498-2	402-5	240-2	356-2	482-2	397-5	223-2	310-2	453-2	465-5	195-2	
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14.00	196-2	439-2	473-2	229-5	197-2	347-2	470-2	182-5	156-2	297-2	467-2	167-5	133-2	289-2	460-2	180-5	130-2	272-2	446-2	258-5	122-2	
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RELATIVE VELOCITY RESPONSE SPECTRUM
PUGET SOUND, WASH., EARTHQUAKE APR 29, 1965 - 0728 PST
111U310 65.003.0 FEDERAL OFFICE BUILDING, SEATTLE, WASHINGTON COMP UP
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

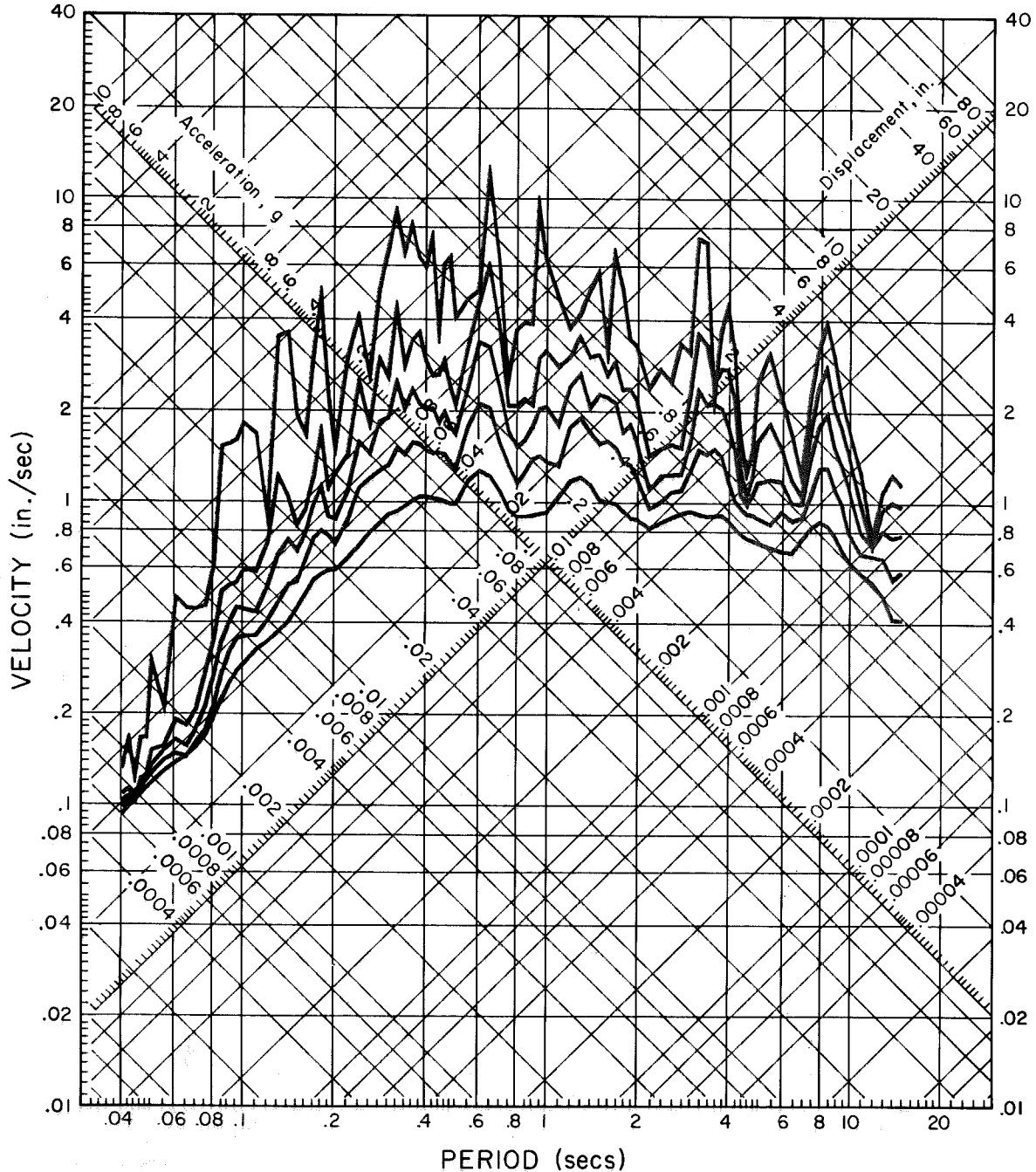


RESPONSE SPECTRUM

PUGET SOUND, WASH., EARTHQUAKE APR 29, 1965 - 0728 PST

IIIU310 65.003.0 FEDERAL OFFICE BUILDING, SEATTLE, WASHINGTON COMP UP

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



PUGET SOUND, WASH., EARTHQUAKE APR 29, 1965 - 0728 PST

IIIIU310 65.003.0 FEDERAL OFFICE BUILDING, SEATTLE, WASHINGTON COMP UP

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
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0.044	528-4	852-6	632-4	450-4	121-3	708-6	393-4	473-4	101-3	750-6	352-4	436-4	107-3	749-6	297-4	397-4	107-3
0.046	555-4	120-5	100-3	584-4	165-3	881-6	431-4	425-4	120-3	851-6	386-4	411-4	116-3	826-6	324-4	401-4	112-3
0.048	465-4	125-5	991-4	558-4	164-3	945-6	465-4	419-4	123-3	950-6	424-4	423-4	124-3	909-6	368-4	407-4	119-3
0.050	157-3	234-5	228-3	959-4	294-3	119-5	620-4	487-4	149-3	106-5	498-4	436-4	134-3	100-5	413-4	410-4	125-3
0.055	372-4	181-5	139-3	613-4	207-3	135-5	891-4	457-4	154-3	131-5	654-4	441-4	149-3	121-5	481-4	410-4	139-3
0.060	373-3	458-5	404-3	130-3	479-3	180-5	102-3	513-4	188-3	155-5	792-4	442-4	162-3	139-5	614-4	394-4	145-3
0.065	346-3	456-5	385-3	110-3	441-3	186-5	103-3	451-4	180-3	159-5	897-4	387-4	154-3	147-5	754-4	360-4	142-3
0.070	274-3	488-5	398-3	101-3	438-3	230-5	161-3	483-4	206-3	198-5	126-3	416-4	178-3	177-5	993-4	378-4	159-3
0.075	273-3	535-5	378-3	974-4	448-3	324-5	249-3	591-4	272-3	252-5	188-3	455-4	211-3	209-5	130-3	383-4	175-3
0.080	475-3	787-5	524-3	125-3	618-3	442-5	296-3	703-4	347-3	339-5	222-3	538-4	266-3	269-5	152-3	432-4	211-3
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0.090	133-2	220-4	143-2	278-3	153-2	749-5	426-3	949-4	523-3	574-5	286-3	724-4	400-3	456-5	191-3	576-4	318-3
0.095	113-2	239-4	151-2	271-3	158-2	812-5	396-3	924-4	537-3	671-5	313-3	757-4	444-3	530-5	213-3	600-4	350-3
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0.110	125-2	290-4	157-2	245-3	166-2	101-4	480-3	862-4	581-3	748-5	327-3	626-4	427-3	627-5	245-3	534-4	358-3
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0.150	116-2	453-4	182-2	206-3	190-2	197-4	827-3	896-4	827-3	162-4	558-3	734-4	679-3	128-4	397-3	595-4	538-3
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0.200	108-2	471-4	153-2	120-3	148-2	389-4	112-2	995-4	122-2	276-4	761-3	710-4	867-3	227-4	558-3	605-4	714-3
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0.260	238-2	106-3	250-2	160-3	256-2	731-4	162-2	111-3	176-2	590-4	131-2	892-4	142-2	488-4	115-2	745-4	118-2
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0.440	316-2	253-3	363-2	134-3	602-2	182-3	281-2	968-4	260-2	126-3	206-2	673-4	180-2	100-3	143-2	543-4	143-2
0.460	266-2	440-3	583-2	213-3	622-2	213-3	282-2	102-3	291-2	144-3	193-2	699-4	196-2	104-3	142-2	511-4	142-2
0.480	421-2	488-3	621-2	216-3	639-2	181-3	245-2	803-4	237-2	133-3	171-2	593-4	174-2	101-3	133-2	455-4	132-2
0.500	221-2	318-3	397-2	130-3	400-2	163-3	214-2	669-4	205-2	132-3	169-2	542-4	166-2	100-3	124-2	416-4	126-2
0.550	287-2	405-3	435-2	137-3	463-2	278-3	296-2	940-4	318-2	206-3	230-2	699-4	235-2	153-3	163-2	530-4	175-2
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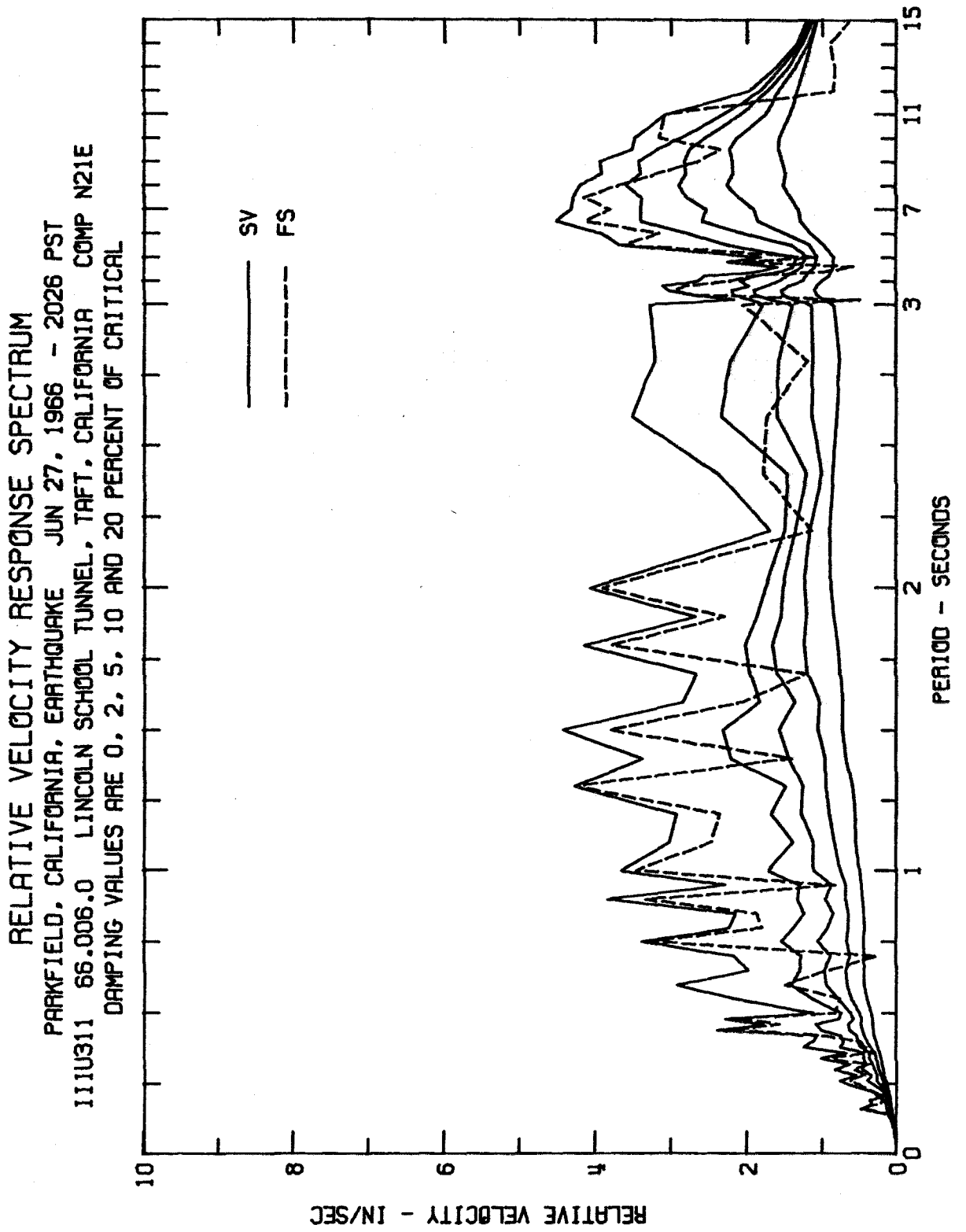
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DAMPING = 20 PER CENT

IIU310 65.003.0 FEDERAL OFFICE BUILDING, SEATTLE, WASHINGTON COMP UP

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND 6 FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
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0.80	171-2	466-3	356-2	745-4	366-2	261-3	245-2	418-4	205-2	190-3	194-2	306-4	149-2	144-3	150-2	237-4	113-2
0.85	162-2	523-3	381-2	741-4	387-2	293-3	259-2	415-4	216-2	214-3	203-2	305-4	158-2	168-3	158-2	242-4	124-2
0.90	334-2	548-3	382-2	691-4	382-2	296-3	215-2	373-4	206-2	252-3	195-2	320-4	175-2	197-3	152-2	255-4	137-2
0.95	854-2	142-2	933-2	161-3	942-2	446-3	296-2	506-4	295-2	304-3	219-2	347-4	201-2	212-3	169-2	249-4	140-2
1.00	275-2	994-3	634-2	101-3	625-2	495-3	317-2	507-4	311-2	324-3	238-2	334-4	203-2	213-3	175-2	222-4	134-2
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1.20	265-2	705-3	378-2	501-4	369-2	567-3	313-2	402-4	296-2	452-3	246-2	322-4	236-2	333-3	175-2	240-4	174-2
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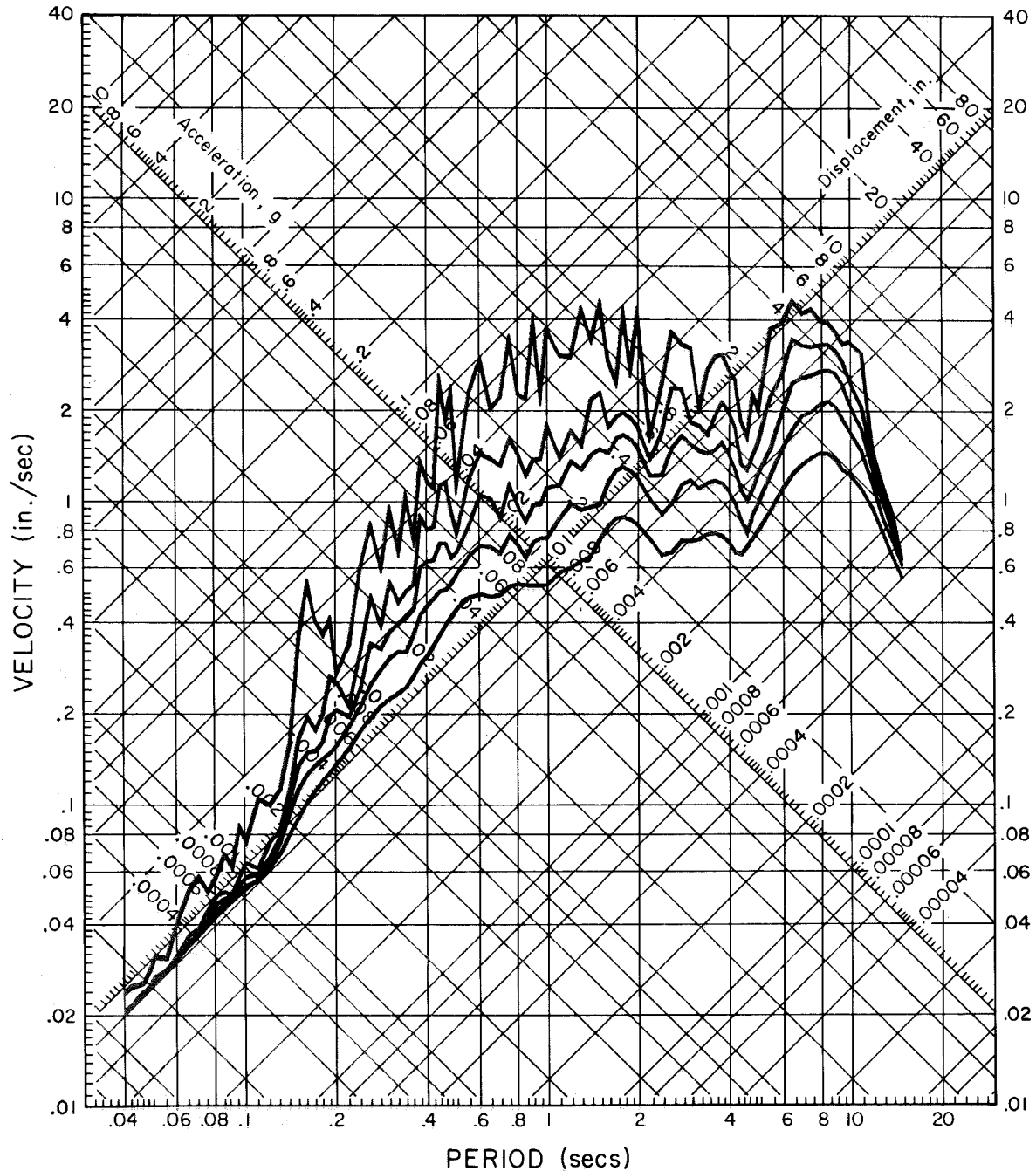


RESPONSE SPECTRUM

PARKFIELD, CALIFORNIA, EARTHQUAKE JUN 27, 1966 - 2026 PST

IIIU311 66.006.0 LINCOLN SCHOOL TUNNEL, TAFT, CALIFORNIA COMP N21E

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



PARKFIELD, CALIFORNIA, EARTHQUAKE JUN 27, 1966 - 2026 PST

IIIIU311 66.006.0 LINCOLN SCHOOL TUNNEL, TAFT, CALIFORNIA COMP N21E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.040	255-5	152-6	634-5	972-5	239-4	131-6	337-5	839-5	206-4	129-6	324-5	828-5	203-4	129-6	305-5	828-5	203-4
0.042	450-5	166-6	827-5	967-5	249-4	143-6	385-5	834-5	215-4	142-6	344-5	827-5	213-4	142-6	332-5	827-5	213-4
0.044	475-5	176-6	790-5	934-5	252-4	159-6	414-5	841-5	227-4	157-6	374-5	831-5	224-4	157-6	368-5	831-5	224-4
0.046	123-5	186-6	722-5	909-5	256-4	174-6	422-5	842-5	238-4	173-6	408-5	836-5	235-4	172-6	406-5	836-5	235-4
0.048	250-5	214-6	692-5	953-5	281-4	187-6	446-5	833-5	245-4	188-6	437-5	838-5	247-4	188-6	445-5	838-5	247-4
0.050	365-5	248-6	869-5	101-4	312-4	212-6	477-5	868-5	266-4	206-6	480-5	845-5	259-4	204-6	491-5	837-5	257-4
0.055	487-5	269-6	102-4	912-5	308-4	244-6	705-5	827-5	279-4	244-6	683-5	826-5	279-4	246-6	653-5	835-5	282-4
0.060	144-4	400-6	205-4	113-4	419-4	306-6	990-5	870-5	320-4	295-6	875-5	840-5	309-4	295-6	769-5	841-5	309-4
0.065	242-4	536-6	265-4	129-4	518-4	378-6	118-4	916-5	366-4	358-6	105-4	866-5	348-4	352-6	998-5	852-5	340-4
0.070	294-4	640-6	318-4	133-4	575-4	429-6	145-4	897-5	385-4	410-6	127-4	857-5	368-4	412-6	119-4	859-5	370-4
0.075	271-4	608-6	297-4	110-4	509-4	533-6	140-4	970-5	446-4	498-6	139-4	906-5	417-4	482-6	135-4	878-5	404-4
0.080	165-4	742-6	314-4	118-4	583-4	632-6	151-4	100-4	496-4	591-6	147-4	944-5	464-4	560-6	149-4	895-5	440-4
0.085	250-4	917-6	307-4	129-4	678-4	690-6	196-4	976-5	510-4	655-6	176-4	928-5	484-4	631-6	170-4	894-5	467-4
0.090	195-4	879-6	331-4	111-4	613-4	716-6	190-4	905-5	500-4	710-6	193-4	898-5	495-4	702-6	195-4	889-5	490-4
0.095	417-4	127-5	500-4	144-4	841-4	863-6	292-4	103-4	979-5	811-6	247-4	922-5	536-4	780-6	225-4	886-5	516-4
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0.110	543-4	181-5	673-4	153-4	103-3	108-5	418-4	903-5	609-4	102-5	341-4	866-5	585-4	973-6	294-4	824-5	556-4
0.120	669-4	188-5	722-4	134-4	987-4	142-5	378-4	101-4	748-4	126-5	364-4	903-5	664-4	121-5	367-4	860-5	634-4
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0.140	806-4	354-5	111-3	185-4	159-3	249-5	831-4	129-4	112-3	230-5	742-4	121-4	103-3	208-5	632-4	108-4	935-4
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0.170	369-3	108-4	388-3	384-4	401-3	472-5	140-3	167-4	174-3	402-5	991-4	144-4	148-3	361-5	853-4	129-4	133-3
0.180	210-3	103-4	332-3	326-4	360-3	569-5	140-3	180-4	198-3	461-5	108-3	145-4	160-3	404-5	882-4	128-4	141-3
0.190	164-3	122-4	364-3	347-4	406-3	797-5	203-3	225-4	263-3	589-5	138-3	167-4	195-3	446-5	952-4	128-4	147-3
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0.260	638-3	343-4	778-3	519-4	830-3	198-4	405-3	300-4	480-3	140-4	274-3	213-4	339-3	102-4	183-3	156-4	248-3
0.280	411-3	267-4	556-3	349-4	601-3	171-4	346-3	223-4	385-3	144-4	260-3	192-4	324-3	123-4	219-3	165-4	277-3
0.300	590-3	445-4	842-3	505-4	932-3	256-4	474-3	292-4	537-3	176-4	302-3	202-4	370-3	144-4	248-3	168-4	303-3
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0.360	276-3	425-4	670-3	336-4	743-3	303-4	438-3	239-4	529-3	253-4	367-3	199-4	442-3	208-4	285-3	165-4	353-3
0.380	428-3	817-4	125-2	579-4	135-2	536-4	766-3	381-4	886-3	366-4	492-3	259-4	608-3	255-4	395-3	182-4	422-3
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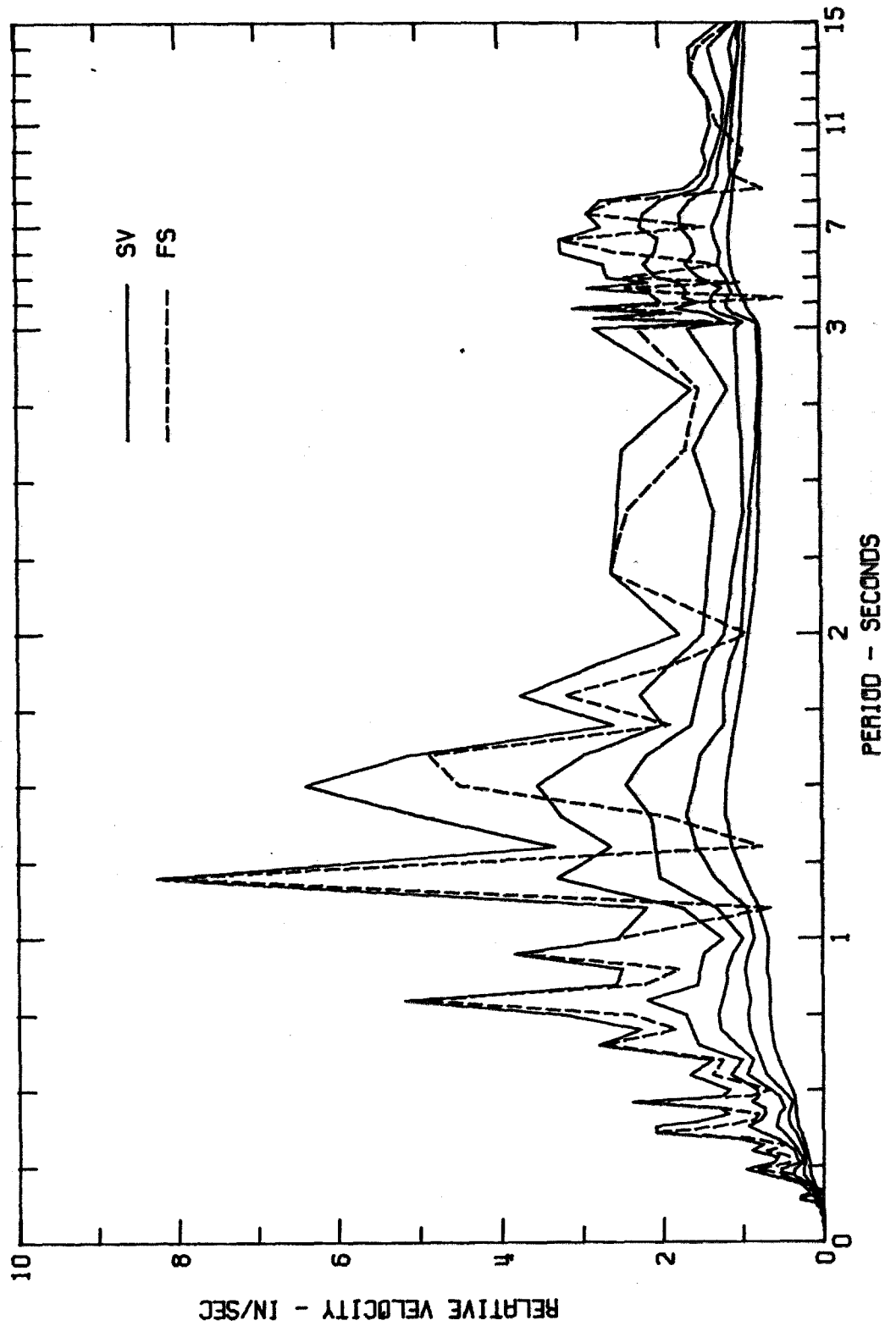
IIU311 66.006.0 LINCOLN SCHOOL TUNNEL, TAFT, CALIFORNIA COMP N21E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.75	326-2	407-3	339-2	740-4	341-2	190-3	154-2	347-4	159-2	135-3	106-2	247-4	113-2	922-4	677-3	170-4	772-3
0.80	179-2	287-3	223-2	458-4	225-2	181-3	138-2	289-4	142-2	121-3	934-3	196-4	956-3	908-4	657-3	147-4	713-3
0.85	187-2	292-3	214-2	414-4	216-2	164-3	124-2	232-4	121-2	115-3	858-3	164-4	852-3	876-4	657-3	126-4	647-3
0.90	334-2	558-3	385-2	704-4	389-2	196-3	133-2	248-4	137-2	139-3	968-3	177-4	972-3	105-3	696-3	135-4	733-3
0.95	823-3	337-3	228-2	382-4	223-2	208-3	130-2	236-4	137-2	147-3	886-3	167-4	974-3	114-3	693-3	132-4	754-3
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2.20	114-2	570-3	169-2	120-4	162-2	480-3	149-2	101-4	137-2	423-3	135-2	901-5	121-2	352-3	116-2	764-5	100-2
2.40	177-2	912-3	238-2	161-4	238-2	636-3	145-2	113-4	166-2	465-3	120-2	831-5	121-2	345-3	100-2	625-5	904-3
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3.60	295-2	171-2	303-2	135-4	300-2	109-2	219-2	861-5	190-2	843-3	190-2	669-5	147-2	667-3	154-2	539-5	116-2
3.80	281-2	185-2	310-2	131-4	306-2	128-2	196-2	909-5	212-2	944-3	173-2	674-5	156-2	692-3	144-2	501-5	114-2
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4.20	201-2	167-2	256-2	973-5	251-2	116-2	187-2	676-5	174-2	847-3	146-2	494-5	126-2	657-3	116-2	393-5	983-3
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5.50	362-2	326-2	369-2	110-4	372-2	194-2	226-2	659-5	222-2	130-2	141-2	444-5	149-2	106-2	117-2	367-5	122-2
6.00	315-2	369-2	392-2	104-4	386-2	251-2	278-2	714-5	263-2	186-2	204-2	532-5	195-2	141-2	149-2	412-5	148-2
6.50	414-2	475-2	452-2	115-4	459-2	354-2	340-2	860-5	343-2	254-2	260-2	619-5	246-2	178-2	186-2	440-5	172-2
7.00	380-2	465-2	432-2	971-5	417-5	364-2	340-2	762-5	327-2	284-2	254-2	597-5	255-2	213-2	191-2	454-5	191-2
7.50	416-2	514-2	429-2	935-5	430-2	386-2	339-2	702-5	323-2	310-2	280-2	567-5	260-2	235-2	211-2	439-5	197-2
8.00	367-2	504-2	419-2	805-5	395-2	418-2	359-2	669-5	328-2	341-2	289-2	549-5	268-2	265-2	226-2	431-5	208-2
8.50	318-2	526-2	391-2	745-5	389-2	446-2	339-2	632-5	329-2	367-2	280-2	523-5	271-2	288-2	218-2	420-5	213-2
9.00	264-2	499-2	393-2	656-5	362-2	450-2	342-2	569-5	314-2	378-2	282-2	481-5	264-2	294-2	219-2	384-5	205-2
9.50	234-2	534-2	347-2	547-5	336-2	401-2	316-2	495-5	289-2	365-2	275-2	415-5	241-2	281-2	223-2	329-5	186-2
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11.00	307-2	538-2	307-2	455-5	307-2	358-2	232-2	302-5	204-2	304-2	209-2	260-5	173-2	256-2	175-2	224-5	146-2
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13.00	823-3	230-2	160-2	139-5	111-2	218-2	153-2	132-5	105-2	202-2	144-2	123-5	976-3	178-2	135-2	115-5	861-3
14.00	893-3	200-2	133-2	104-5	901-3	184-2	128-2	963-6	826-3	175-2	125-2	935-6	789-3	162-2	118-2	888-6	728-3
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DAMPING = 0 PER CENT DAMPING = 2 PER CENT DAMPING = 5 PER CENT DAMPING = 10 PER CENT DAMPING = 20 PER CENT

RELATIVE VELOCITY RESPONSE SPECTRUM
PARKFIELD, CALIFORNIA, EARTHQUAKE JUN 27, 1966 - 2026 PST
111U311 66.006.0 LINCOLN SCHOOL TUNNEL, TAFT, CALIFORNIA COMP S69E
DAMPING VALUES ARE 0.2, 5, 10 AND 20 PERCENT OF CRITICAL

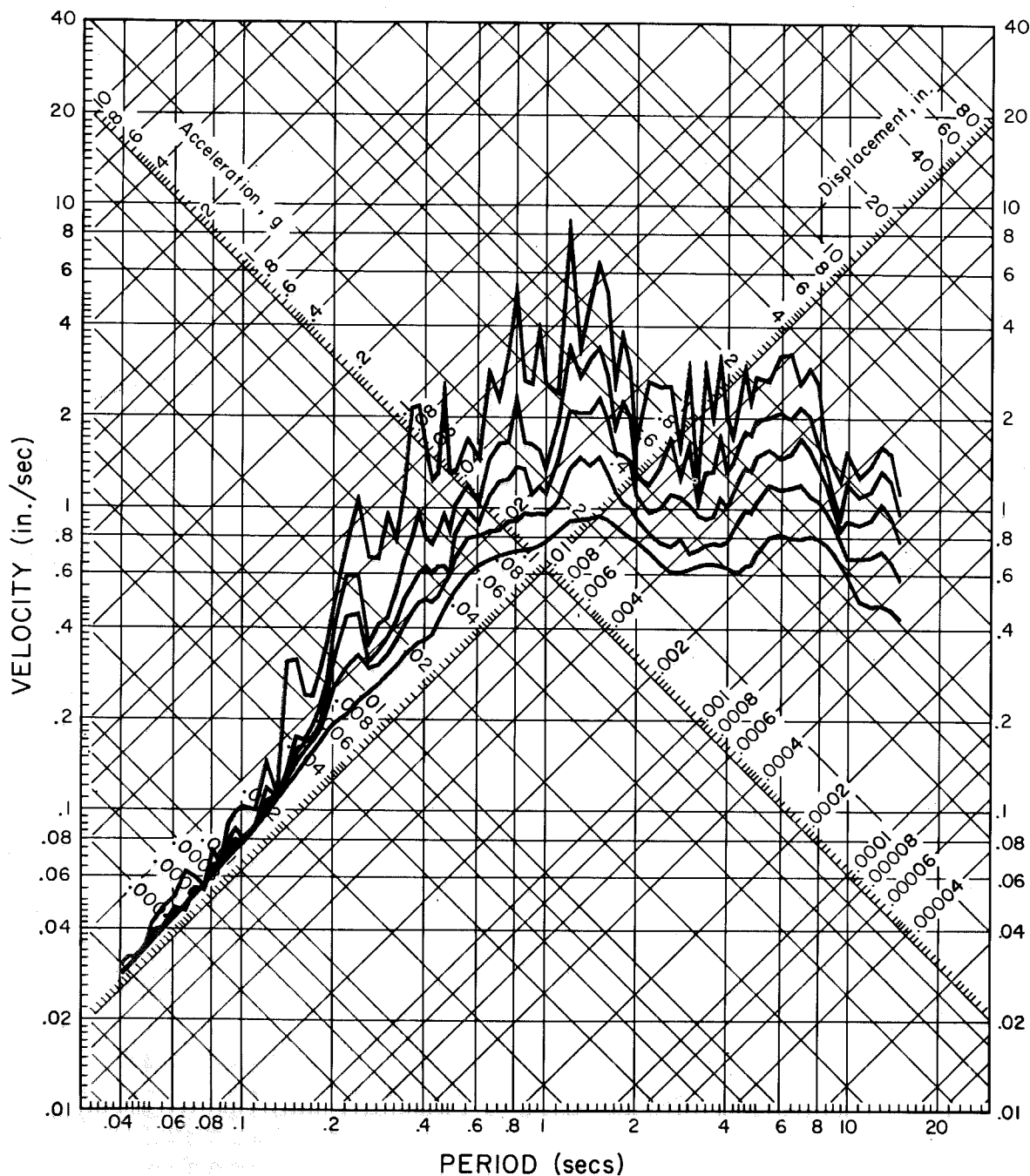


RESPONSE SPECTRUM

PARKFIELD, CALIFORNIA, EARTHQUAKE JUN 27, 1966 - 2026 PST

IIIU311 66.006.0 LINCOLN SCHOOL TUNNEL, TAFT, CALIFORNIA COMP S69E

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



PARKFIELD, CALIFORNIA, EARTHQUAKE JUN 27, 1966 - 2026 PST
 111U311 66.006.0 LINCOLN SCHOOL TUNNEL, TAFT, CALIFORNIA COMP S69E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT										DAMPING = 5 PER CENT										DAMPING = 10 PER CENT										DAMPING = 20 PER CENT									
PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV										
0.040	255-5	193-6	658-5	123-4	304-4	182-6	420-5	116-4	285-4	180-6	363-5	115-4	283-4	180-6	349-5	115-4	283-4	179-6	331-5	114-4	282-4																		
0.042	456-5	215-6	881-5	124-4	321-4	199-6	436-5	115-4	297-4	199-6	397-5	115-4	298-4	199-6	383-5	115-4	298-4	198-6	364-5	115-4	291-4																		
0.044	640-5	225-6	671-5	118-4	321-4	217-6	450-5	114-4	310-4	219-6	442-5	115-4	313-4	219-6	418-5	116-4	313-4	219-6	399-5	115-4	312-4																		
0.046	221-5	245-6	749-5	118-4	335-4	245-6	617-5	118-4	334-4	242-6	511-5	117-4	331-4	242-6	457-5	117-4	330-4	240-6	434-5	116-4	328-4																		
0.048	305-5	264-6	714-5	117-4	346-4	271-6	665-5	120-4	356-4	270-6	561-5	119-4	353-4	265-6	496-5	118-4	348-4	263-6	470-5	117-4	344-4																		
0.050	741-5	327-6	102-4	134-4	412-4	311-6	688-5	127-4	391-4	297-6	564-5	121-4	374-4	290-6	534-5	118-4	365-4	286-6	506-5	117-4	360-4																		
0.055	146-4	414-6	189-4	140-4	473-4	354-6	888-5	119-4	404-4	352-6	755-5	119-4	402-4	352-6	675-5	119-4	402-4	350-6	612-5	118-4	399-4																		
0.060	109-4	489-6	143-4	138-4	512-4	449-6	103-4	127-4	470-4	428-6	886-5	121-4	448-4	423-6	794-5	120-4	443-4	419-6	713-5	119-4	439-4																		
0.065	302-4	645-6	322-4	156-4	623-4	476-6	101-4	115-4	640-4	496-6	887-5	120-4	480-4	499-6	838-5	121-4	483-4	495-6	797-5	120-4	479-4																		
0.070	115-4	663-6	235-4	138-4	595-4	612-6	116-4	127-4	549-4	591-6	101-4	123-4	531-4	584-6	932-5	121-4	525-4	579-6	892-5	121-4	520-4																		
0.075	123-4	661-6	186-4	120-4	554-4	643-6	121-4	117-4	539-4	666-6	110-4	121-4	558-4	676-6	103-4	122-4	566-4	670-6	100-4	122-4	561-4																		
0.080	153-4	928-6	277-4	148-4	729-4	831-6	148-4	133-4	653-4	798-6	135-4	127-4	627-4	785-6	122-4	125-4	617-4	769-6	114-4	123-4	604-4																		
0.085	228-4	888-6	290-4	125-4	656-4	899-6	169-4	127-4	665-4	913-6	151-4	129-4	675-4	901-6	142-4	127-4	666-4	877-6	134-4	125-4	648-4																		
0.090	266-4	128-5	448-4	162-4	898-4	113-5	341-4	148-4	789-4	106-5	189-4	135-4	745-4	102-5	175-4	129-4	754-4	991-6	157-4	126-4	692-4																		
0.095	445-4	148-5	494-4	168-4	980-4	130-5	355-4	130-4	799-4	123-5	284-4	126-4	773-4	123-5	235-4	126-4	773-4	122-5	204-4	127-4	770-4																		
0.100	334-4	162-5	511-4	165-4	101-3	127-5	355-4	131-4	886-4	151-5	315-4	128-4	864-4	152-5	275-4	128-4	869-4	151-5	253-4	129-4	864-4																		
0.110	475-4	174-5	536-4	147-4	995-4	155-5	385-4	131-4	886-4	151-5	315-4	128-4	864-4	152-5	275-4	128-4	869-4	151-5	253-4	129-4	864-4																		
0.120	630-4	274-5	814-4	194-4	143-3	225-5	495-4	159-4	107-3	203-5	378-4	144-4	106-3	192-5	347-4	137-4	100-3	185-5	316-4	134-4	971-4																		
0.130	719-4	230-5	855-4	139-4	111-3	226-5	547-4	137-4	109-3	233-5	463-4	141-4	112-3	231-5	438-4	141-4	112-3	224-5	395-4	137-4	108-3																		
0.140	281-3	688-5	292-3	359-4	308-3	295-5	906-4	137-4	132-3	286-5	667-4	150-4	128-3	281-5	553-4	147-4	126-3	266-5	481-4	145-4	131-3																		
0.150	206-3	747-5	288-3	339-4	313-3	416-5	146-3	189-4	174-3	366-5	976-4	166-4	153-3	341-5	703-4	155-4	143-3	313-5	591-4	145-4	131-3																		
0.160	240-4	609-5	186-3	243-4	239-3	430-5	124-3	171-4	169-3	424-5	101-3	170-4	166-3	399-5	870-4	161-4	156-3	366-5	704-4	150-4	143-3																		
0.170	327-4	643-5	194-3	227-4	237-3	515-5	142-3	182-4	190-3	470-5	115-3	166-4	173-3	455-5	100-3	161-4	168-3	421-5	836-4	153-4	155-3																		
0.180	149-3	825-5	247-3	260-4	288-3	628-5	167-3	198-4	219-3	551-5	137-3	174-4	192-3	526-5	114-3	166-4	183-3	482-5	982-4	156-4	168-3																		
0.190	238-3	108-4	295-3	307-4	359-3	809-5	203-3	229-4	267-3	721-5	166-3	204-4	238-3	653-5	143-3	186-4	216-3	552-5	114-3	162-4	182-3																		
0.200	307-3	153-4	396-3	393-4	482-3	126-4	320-3	324-4	397-3	100-4	241-3	258-4	314-3	812-5	188-3	207-4	255-3	615-5	129-3	163-4	193-3																		
0.220	351-3	265-4	681-3	561-4	759-3	208-4	534-3	441-4	595-3	152-4	388-3	325-4	436-3	103-4	259-3	226-4	296-3	722-5	161-3	158-4	206-3																		
0.240	847-3	407-4	974-3	722-4	106-2	226-4	531-3	405-4	594-3	169-4	369-3	302-4	444-3	123-4	251-3	221-4	323-3	872-5	176-3	162-4	228-3																		
0.260	435-3	284-4	637-3	430-4	686-3	146-4	305-3	221-4	353-3	127-4	255-3	192-4	307-3	121-4	227-3	189-4	293-3	100-4	179-3	158-4	243-3																		
0.280	423-3	301-4	568-3	393-4	677-3	183-4	349-3	238-4	410-3	149-4	278-3	193-4	335-3	134-4	230-3	176-4	301-3	116-4	193-3	159-4	260-3																		
0.300	713-3	452-4	901-3	514-4	947-3	206-4	370-3	234-4	432-3	177-4	325-3	202-4	372-3	155-4	254-3	177-4	325-3	133-4	211-3	159-4	279-3																		
0.320	472-3	398-4	751-3	398-4	782-3	270-4	476-3	270-4	531-3	215-4	379-3	216-4	422-3	185-4	289-3	188-4	363-3	152-4	233-3	161-4	298-3																		
0.340	933-3	627-4	109-2	554-4	115-2	362-4	604-3	320-4	670-3	270-4	446-3	238-4	499-3	221-4	328-3	199-4	408-3	175-4	260-3	164-4	324-3																		
0.360	207-2	123-3	210-2	971-4	214-2	456-4	777-3	358-4	796-3	315-4	504-3	249-4	549-3	257-4	359-3	205-4	449-3	195-4	289-3	164-4	340-3																		
0.380	130-2	131-3	208-2	934-4	218-2	585-4	939-3	358-4	968-3	367-4	583-3	259-4	607-3	293-4	404-3	211-4	483-3	216-4	311-3	163-4	358-3																		
0.400	861-3	102-3	150-2	652-4	160-2	506-4	782-3	324-4	795-3	407-4	566-3	263-4	640-3	317-4	437-3	208-4	497-3	232-4	328-3	160-4	365-3																		
0.420	801-3	821-4	117-2	476-4	122-2	508-4	720-3	294-4	760-3	403-4	549-3	237-4	607-3	325-4	431-3	190-4	486-3	253-4	342-3	153-4	379-3																		
0.440	128-2	916-4	128-2	484-4	130-2	589-4	733-3	310-4	842-3	447-4	489-3	236-4	639-3	356-4	401-3	190-4	509-3	294-4	349-3	160-4	419-3																		
0.460	238-2	174-3	238-2	841-4	237-2	698-4	898-3	336-4	953-3	470-4	525-3	227-4	642-3	406-4	386-3	197-4	553-3	336-4	356-3	168-4	459-3																		
0.480																																							

111U311 66.006.0 LINCOLN SCHOOL TUNNEL, TAFT, CALIFORNIA COMP S69E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.75	238-2	387-3	321-2	704-4	324-2	197-3	171-2	359-4	165-2	148-3	130-2	271-4	124-2	107-3	939-3	200-4	900-3
0.80	502-2	665-3	519-2	106-3	522-2	294-3	220-2	471-4	231-2	174-3	125-2	280-4	137-2	115-3	903-3	190-4	907-3
0.85	222-2	356-3	258-2	504-4	263-2	223-3	156-2	315-4	164-2	182-3	120-2	259-4	134-2	130-3	951-3	187-4	961-3
0.90	178-2	369-3	249-2	467-4	258-2	233-3	152-2	294-4	162-2	159-3	118-2	201-4	111-2	136-3	967-3	175-4	952-3
0.95	379-2	588-3	384-2	667-4	389-2	236-3	147-2	268-4	156-2	178-3	111-2	202-4	117-2	145-3	928-3	167-4	960-3
1.00	254-2	410-3	256-2	420-4	258-2	213-3	124-2	218-4	133-2	177-3	997-3	182-4	111-2	151-3	851-3	158-4	953-3
1.10	634-3	420-3	219-2	355-4	240-2	338-3	176-2	286-4	193-2	253-3	133-2	215-4	145-2	184-3	953-3	159-4	105-2
1.20	821-2	158-3	827-2	112-3	830-2	652-3	330-2	464-4	341-2	402-3	209-2	287-4	210-2	258-3	134-2	187-4	135-2
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1.40	199-2	108-2	495-2	566-4	487-2	699-3	325-2	365-4	314-2	462-3	214-2	242-4	207-2	308-3	169-2	164-4	138-2
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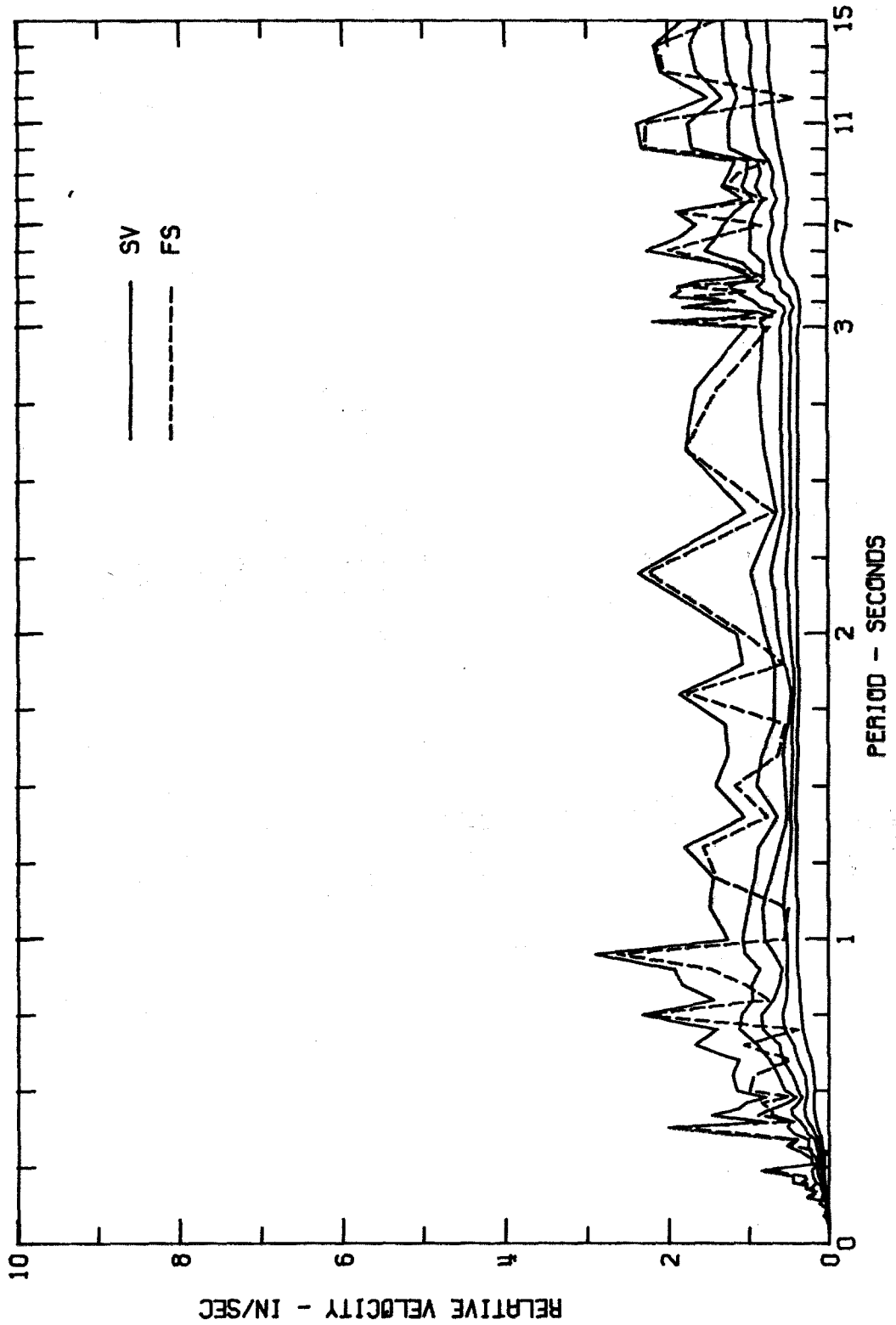
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RELATIVE VELOCITY RESPONSE SPECTRUM
PARKFIELD, CALIFORNIA, EARTHQUAKE JUN 27, 1966 - 2026 PST
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DAMPING VALUES ARE 0. 2. 5. 10 AND 20 PERCENT OF CRITICAL

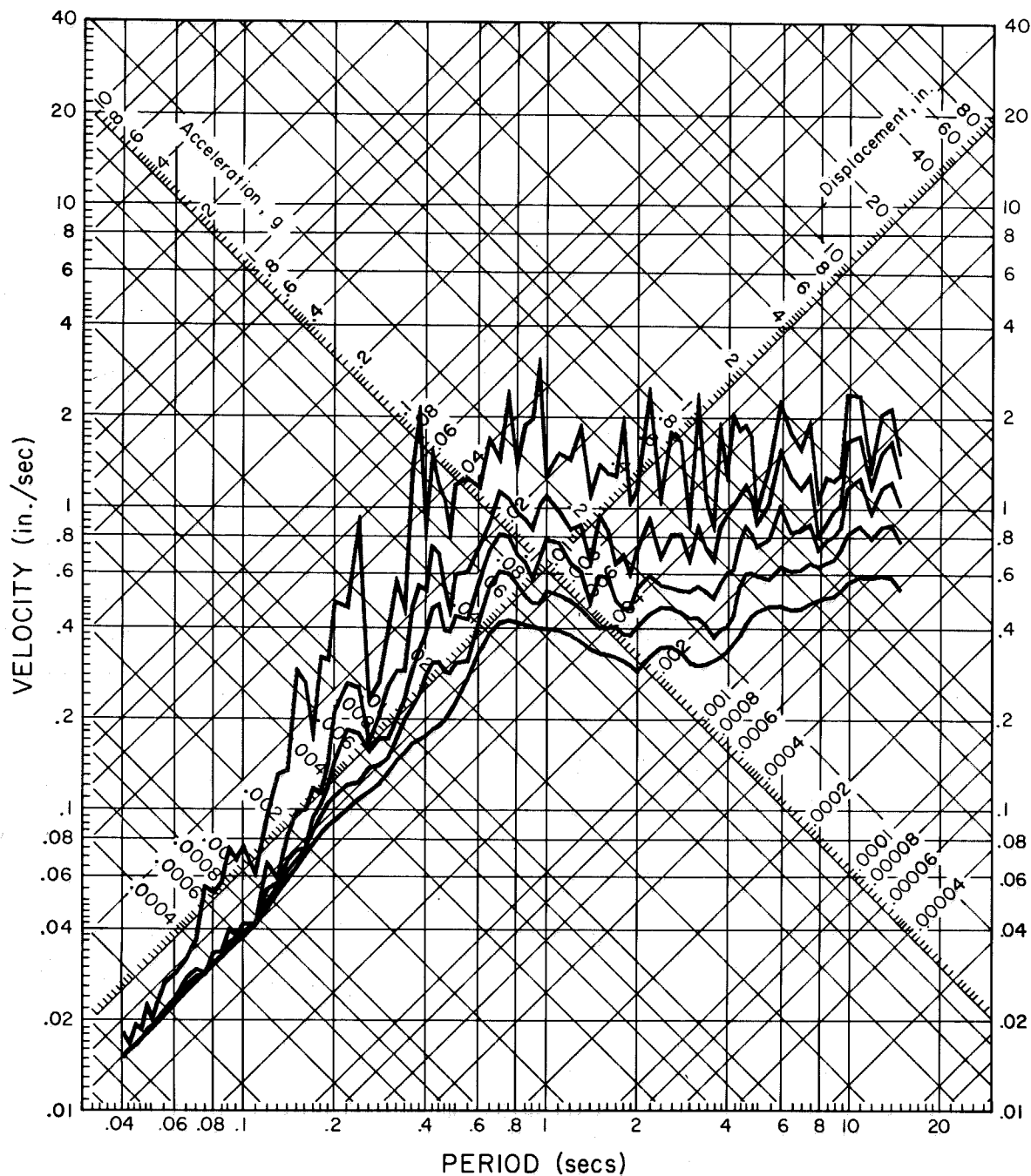


RESPONSE SPECTRUM

PARKFIELD, CALIFORNIA, EARTHQUAKE JUN 27, 1966 - 2026 PST

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DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



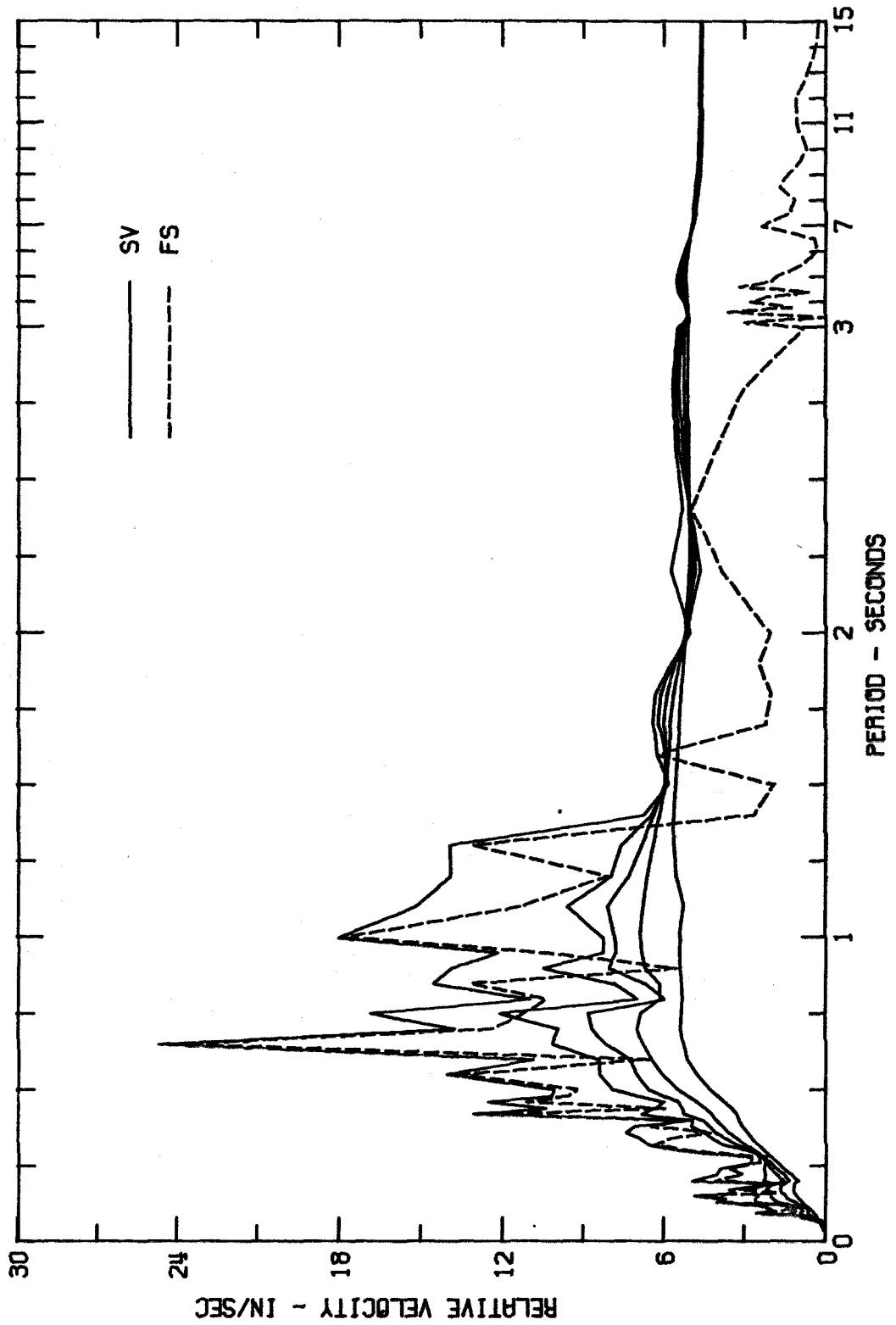
PARKFIELD, CALIFORNIA, EARTHQUAKE JUN 27, 1966 - 2026 PST
 IIIU311 66.006.0 LINCOLN SCHOOL TUNNEL, TAFT, CALIFORNIA COMP UP

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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C.040	492-5	113-6	588-5	725-5	178-4	957-7	315-5	611-5	150-4	955-7	269-5	611-5	150-4	954-7	244-5	610-5	149-4
O.042	442-5	110-6	415-5	639-5	165-4	106-6	299-5	617-5	159-4	105-6	275-5	611-5	157-4	105-6	262-5	609-5	157-4
C.044	415-5	133-6	568-5	707-5	191-4	114-6	263-5	604-5	163-4	114-6	269-5	607-5	164-4	115-6	278-5	608-5	164-4
O.046	522-5	134-6	708-5	651-5	183-4	125-6	262-5	605-5	171-4	125-6	288-5	607-5	171-4	125-6	302-5	608-5	171-4
O.048	939-5	169-6	117-4	751-5	221-4	140-6	352-5	624-5	184-4	137-6	339-5	611-5	180-4	136-6	338-5	607-5	179-4
O.050	935-5	158-6	110-4	648-5	199-4	151-6	374-5	619-5	190-4	148-6	394-5	608-5	187-4	147-6	379-5	605-5	185-4
O.055	833-5	229-6	115-4	777-5	262-4	187-6	548-5	634-5	214-4	183-6	507-5	619-5	209-4	180-6	475-5	610-5	206-4
O.060	140-4	270-6	172-4	767-5	282-4	225-6	684-5	641-5	236-4	220-6	636-5	626-5	230-4	218-6	585-5	620-5	228-4
O.065	227-4	327-6	225-4	791-5	316-4	282-6	708-5	684-5	273-4	266-6	683-5	646-5	258-4	259-6	672-5	628-5	250-4
C.070	725-5	410-6	204-4	856-5	368-4	325-6	893-5	679-5	292-4	308-6	832-5	644-5	277-4	300-6	794-5	627-5	269-4
O.075	379-4	655-6	443-4	119-4	548-4	340-6	147-4	619-5	285-4	337-6	102-4	612-5	282-4	340-6	924-5	619-5	285-4
O.080	365-4	667-6	462-4	106-4	524-4	424-6	121-4	678-5	333-4	390-6	110-4	623-5	306-4	387-6	104-4	619-5	304-4
O.085	528-4	766-6	521-4	108-4	566-4	452-6	164-4	641-5	334-4	439-6	136-4	622-5	325-4	440-6	118-4	623-5	325-4
C.090	353-4	105-5	590-4	132-4	733-4	569-6	159-4	719-5	397-4	514-6	136-4	651-5	359-4	496-6	125-4	628-5	346-4
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C.160	182-3	662-5	248-3	264-4	260-3	250-5	841-4	100-4	984-4	187-5	639-4	747-5	736-4	188-5	535-4	755-5	741-4
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C.260	164-3	947-5	218-3	143-4	229-3	691-5	135-3	105-4	167-3	638-5	117-3	962-5	154-3	565-5	942-4	868-5	136-3
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RELATIVE VELOCITY RESPONSE SPECTRUM
FERNDAL, CALIFORNIA, EARTHQUAKE DEC 10, 1967 - 0406 PST
111U312 67.001.0 CITY HALL, FERNDAL, CALIFORNIA COMP N46W
DAMPING VALUES ARE 0. 2. 5. 10 AND 20 PERCENT OF CRITICAL

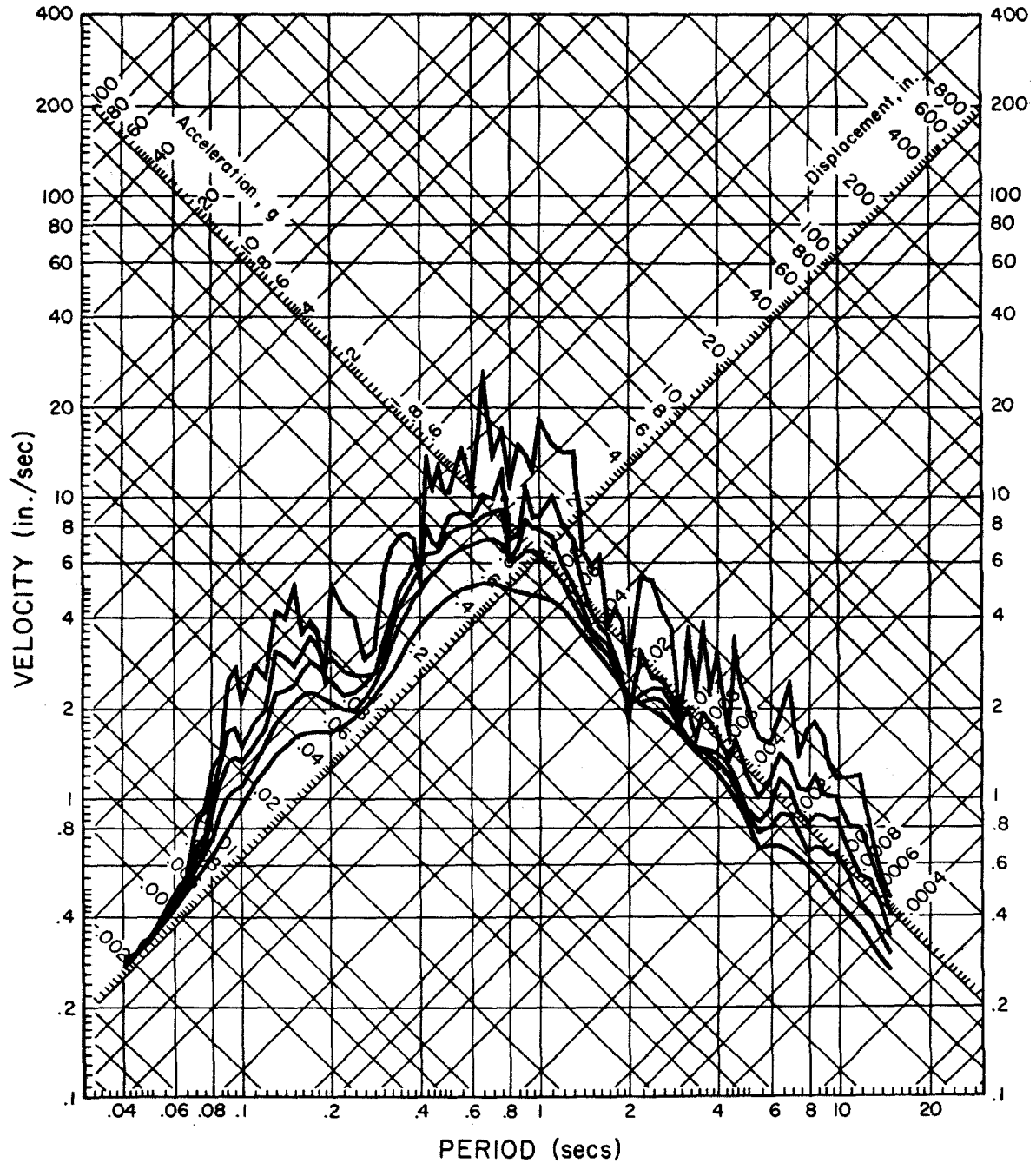


RESPONSE SPECTRUM

FERNDAL, CALIFORNIA, EARTHQUAKE DEC 10, 1967 - 0406 PST

111U312 67.001.0 CITY HALL, FERNDAL, CALIFORNIA COMP N46H

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



FERNDAL, CALIFORNIA, EARTHQUAKE DEC 10, 1967 - 0406 PST
 I11U312 67.001.0 CITY HALL, FERNDAL, CALIFORNIA COMP N46W

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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0.042	246-4	191-5	736-4	111-3	286-3	195-5	774-4	113-3	292-3	193-5	743-4	112-3	289-3	191-5	740-4	111-3	286-3
0.044	306-4	211-5	772-4	111-3	302-3	211-5	721-4	111-3	302-3	211-5	768-4	111-3	301-3	210-5	807-4	111-3	300-3
0.046	601-4	238-5	112-3	115-3	326-3	229-5	921-4	111-3	314-3	229-5	881-4	111-3	313-3	230-5	900-4	111-3	314-3
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0.060	634-4	464-5	210-3	132-3	486-3	431-5	155-3	122-3	451-3	430-5	156-3	122-3	450-3	421-5	165-3	120-3	441-3
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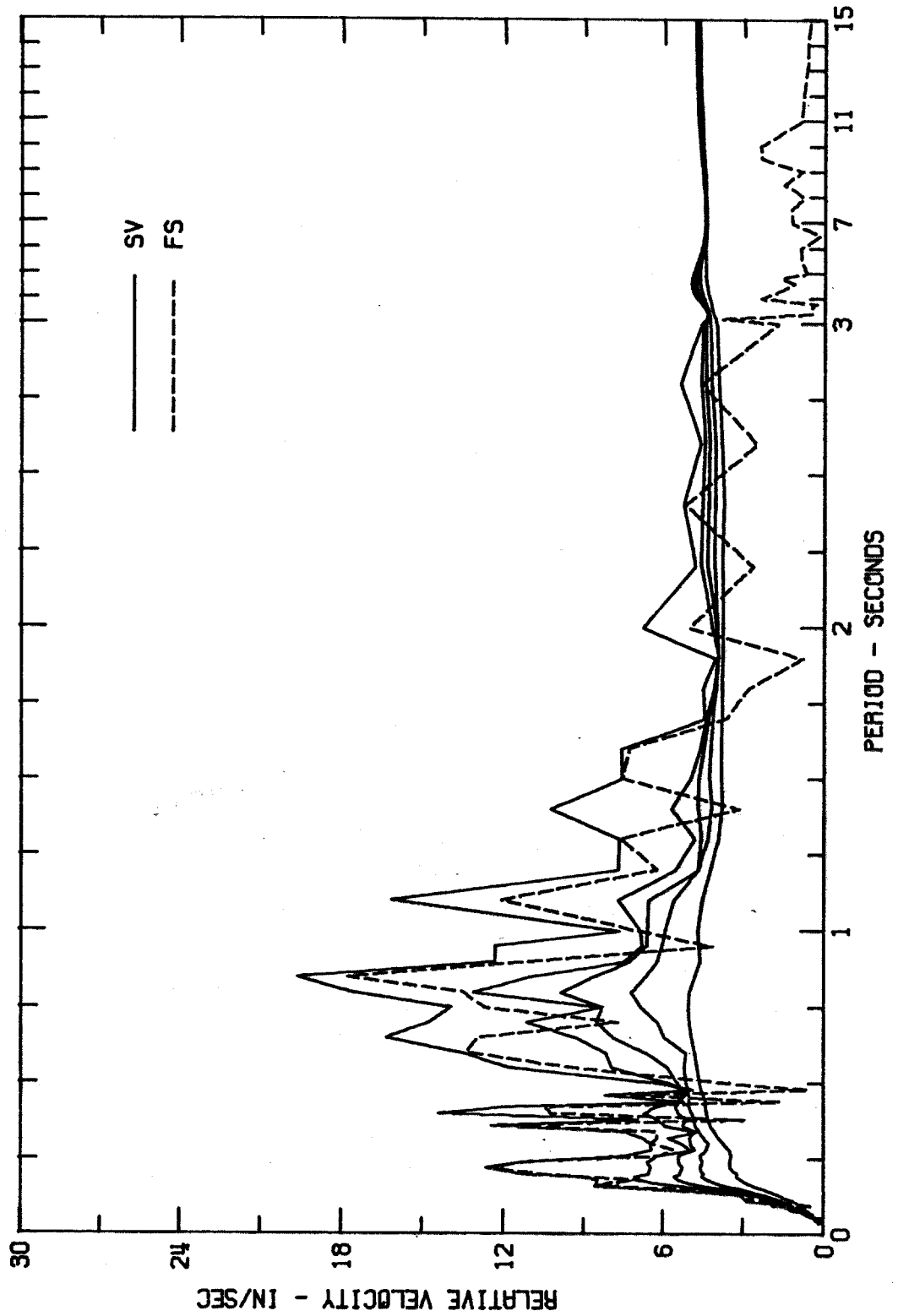
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IIIU312 67.001.0 CITY HALL, FERNDALE, CALIFORNIA COMP N46W

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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RELATIVE VELOCITY RESPONSE SPECTRUM
FERNDALE, CALIFORNIA, EARTHQUAKE DEC 10, 1967 - 0406 PST
11110312 67.001.0 CITY HALL, FERNDALE, CALIFORNIA COMP S44W
DAMPING VALUES ARE 0. 2. 5. 10 AND 20 PERCENT OF CRITICAL

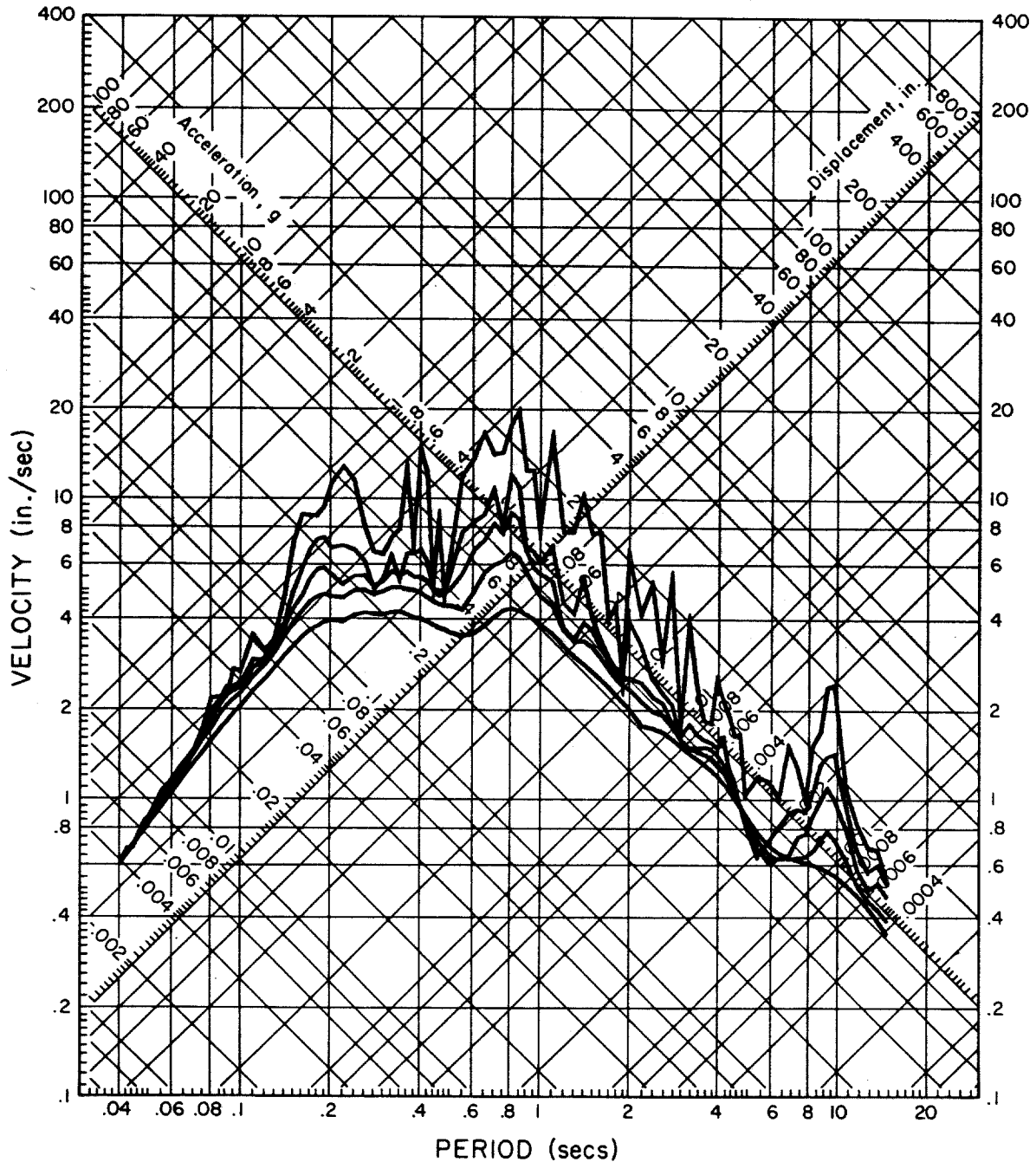


RESPONSE SPECTRUM

FERNDALÉ, CALIFORNIA, EARTHQUAKE DEC 10, 1967 - 0406 PST

IIIU312 67.001.0 CITY HALL, FERNDALÉ, CALIFORNIA COMP S44H

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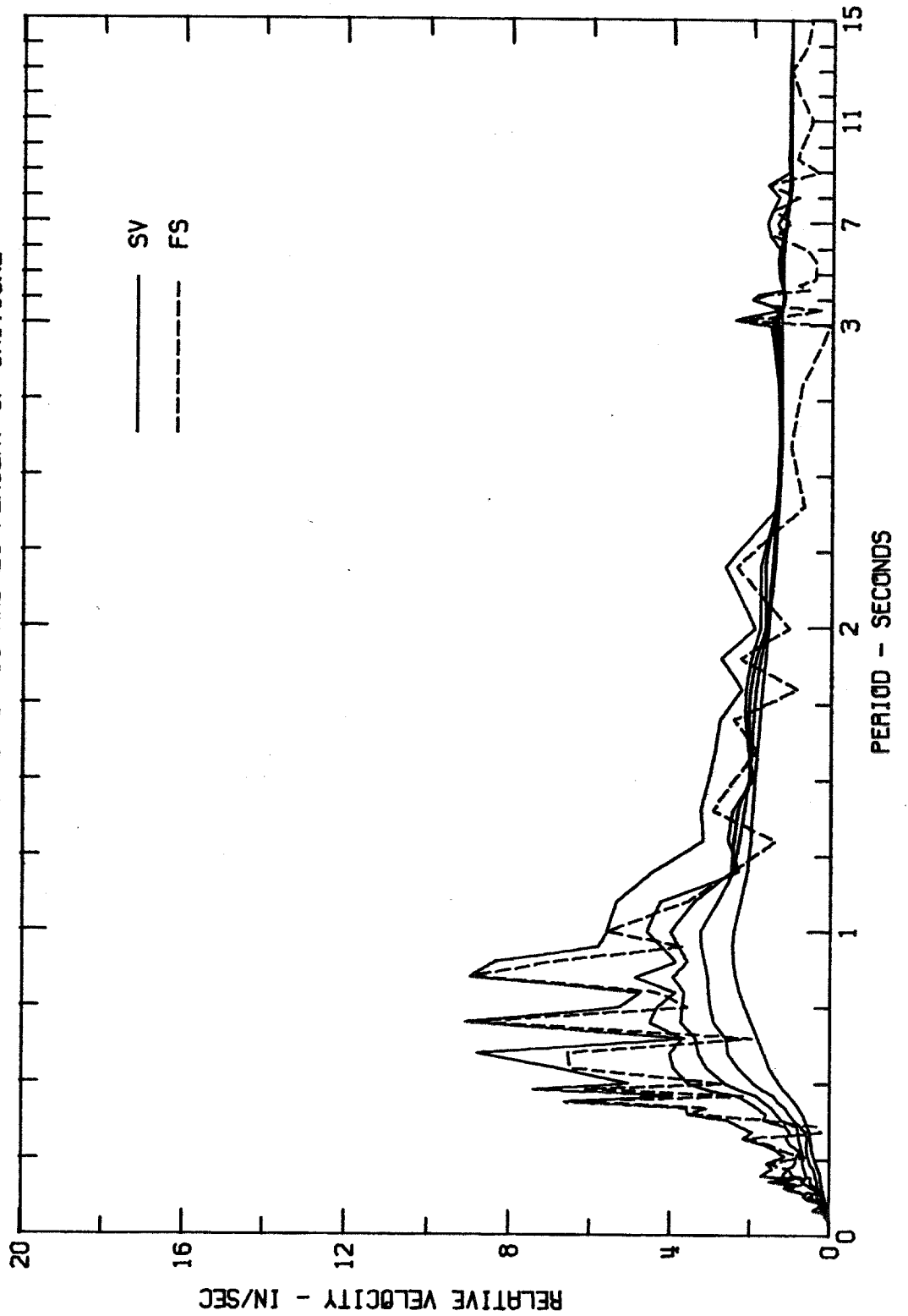


THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT DAMPING = 2 PER CENT DAMPING = 5 PER CENT DAMPING = 10 PER CENT DAMPING = 20 PER CENT

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0.80	135-1	224-2	175-1	359-3	176-1	151-2	131-1	241-3	118-1	113-2	989-2	181-3	888-2	835-3	722-2	136-3	655-2
0.85	178-1	267-2	196-1	378-3	197-1	146-2	110-1	207-3	108-1	114-2	866-2	163-3	846-2	859-3	667-2	124-3	635-2
0.90	109-1	176-2	123-1	222-3	123-1	973-3	744-2	122-3	679-2	945-3	724-2	119-3	660-2	810-3	623-2	105-3	566-2
0.95	411-2	186-2	123-1	211-3	123-1	100-2	678-2	113-3	663-2	880-3	661-2	100-3	582-2	771-3	604-2	898-4	510-2
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1.10	120-1	280-2	161-1	236-3	160-1	120-2	773-2	101-3	687-2	923-3	654-2	786-4	527-2	766-3	558-2	670-4	437-2
1.20	621-2	146-2	770-2	104-3	767-2	852-3	553-2	605-4	446-2	706-3	467-2	503-4	369-2	693-3	467-2	511-4	363-2
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1.40	317-2	227-2	102-1	118-3	102-1	120-2	570-2	628-4	540-2	858-3	469-2	449-4	385-2	746-3	417-2	401-4	335-2
1.50	756-2	180-2	758-2	822-4	758-2	940-3	495-2	428-4	394-2	864-3	465-2	396-4	362-2	765-3	428-2	355-4	320-2
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1.70	365-2	106-2	446-2	377-4	394-2	805-3	437-2	285-4	297-2	777-3	426-2	278-4	287-2	731-3	411-2	269-4	270-2
1.80	282-2	126-2	452-2	400-4	442-2	770-3	439-2	243-4	268-2	745-3	406-2	239-4	260-2	718-3	400-2	237-4	250-2
1.90	807-3	736-3	403-2	208-4	243-2	752-3	392-2	213-4	248-2	752-3	395-2	216-4	248-2	722-3	395-2	216-4	238-2
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2.40	518-2	197-2	527-2	351-4	517-2	960-3	454-2	170-4	251-2	837-3	431-2	158-4	219-2	748-3	405-2	165-4	195-2
2.60	250-2	119-2	459-2	180-4	289-2	929-3	444-2	142-4	224-2	863-3	426-2	141-4	208-2	785-3	406-2	151-4	189-2
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3.60	536-3	104-2	445-2	823-5	182-2	901-3	444-2	714-5	157-2	850-3	442-2	770-5	148-2	806-3	435-2	919-5	140-2
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4.60	112-2	118-2	498-2	573-5	162-2	825-3	490-2	400-5	112-2	774-3	480-2	468-5	105-2	758-3	465-2	614-5	103-2
4.80	162-2	125-2	495-2	555-5	163-2	714-3	489-2	333-5	935-3	720-3	479-2	412-5	943-3	722-3	466-2	561-5	946-3
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RELATIVE VELOCITY RESPONSE SPECTRUM
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111U312 67.001.0 CITY HALL, FERNDAL, CALIFORNIA COMP UP
DAMPING VALUES ARE 0. 2. 5. 10 AND 20 PERCENT OF CRITICAL

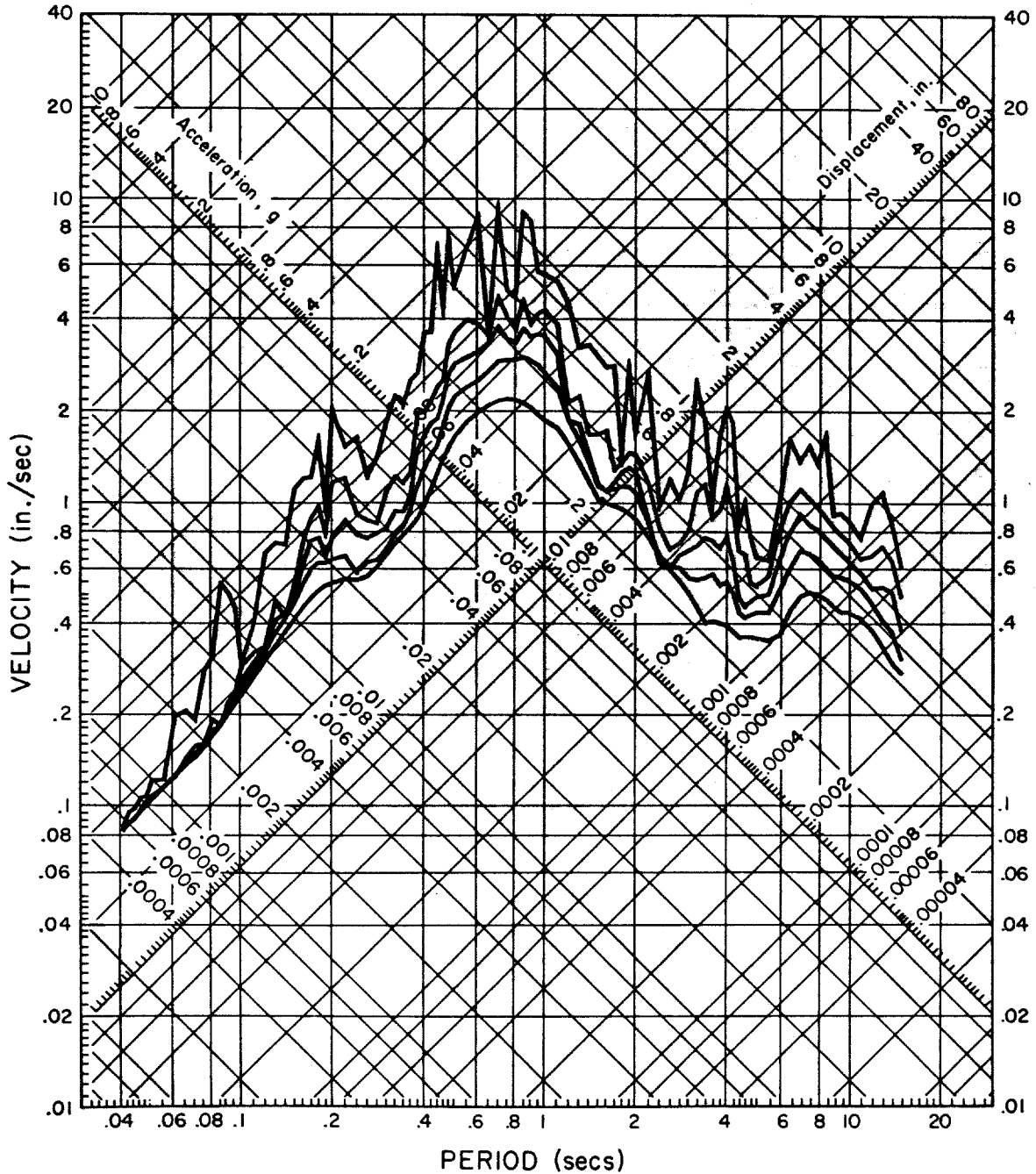


RESPONSE SPECTRUM

FERNDAL, CALIFORNIA, EARTHQUAKE DEC 10, 1967 - 0406 PST

111U312 67.001.0 CITY HALL, FERNDAL, CALIFORNIA COMP UP

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



FERNDAL, CALIFORNIA, EARTHQUAKE DEC 10, 1967 - 0406 PST
 I11U312 67.001.0 CITY HALL, FERNDAL, CALIFORNIA COMP UP

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
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0.044	436-5	672-6	208-4	355-4	960-4	621-6	156-4	328-4	888-4	626-6	152-4	331-4	895-4	629-6	148-4	332-4	898-4
0.046	135-4	760-6	211-4	367-4	103-3	700-6	174-4	338-4	956-4	693-6	168-4	335-4	946-4	690-6	163-4	333-4	943-4
0.048	727-5	810-6	197-4	359-4	106-3	774-6	186-4	343-4	101-3	762-6	183-4	338-4	998-4	755-6	177-4	335-4	989-4
0.050	184-4	948-6	290-4	388-4	119-3	840-6	202-4	343-4	105-3	830-6	199-4	339-4	104-3	822-6	192-4	336-4	103-3
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0.060	608-4	185-5	927-4	527-4	194-3	116-5	326-4	331-4	122-3	118-5	295-4	336-4	123-3	118-5	281-4	336-4	123-3
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0.100	734-4	459-5	236-3	469-4	288-3	452-5	123-3	463-4	284-3	408-5	982-4	416-4	256-3	386-5	827-4	396-4	242-3
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0.150	879-3	263-4	991-3	119-3	110-2	125-4	325-3	573-4	526-3	115-4	238-3	525-3	481-3	110-4	201-3	507-4	463-3
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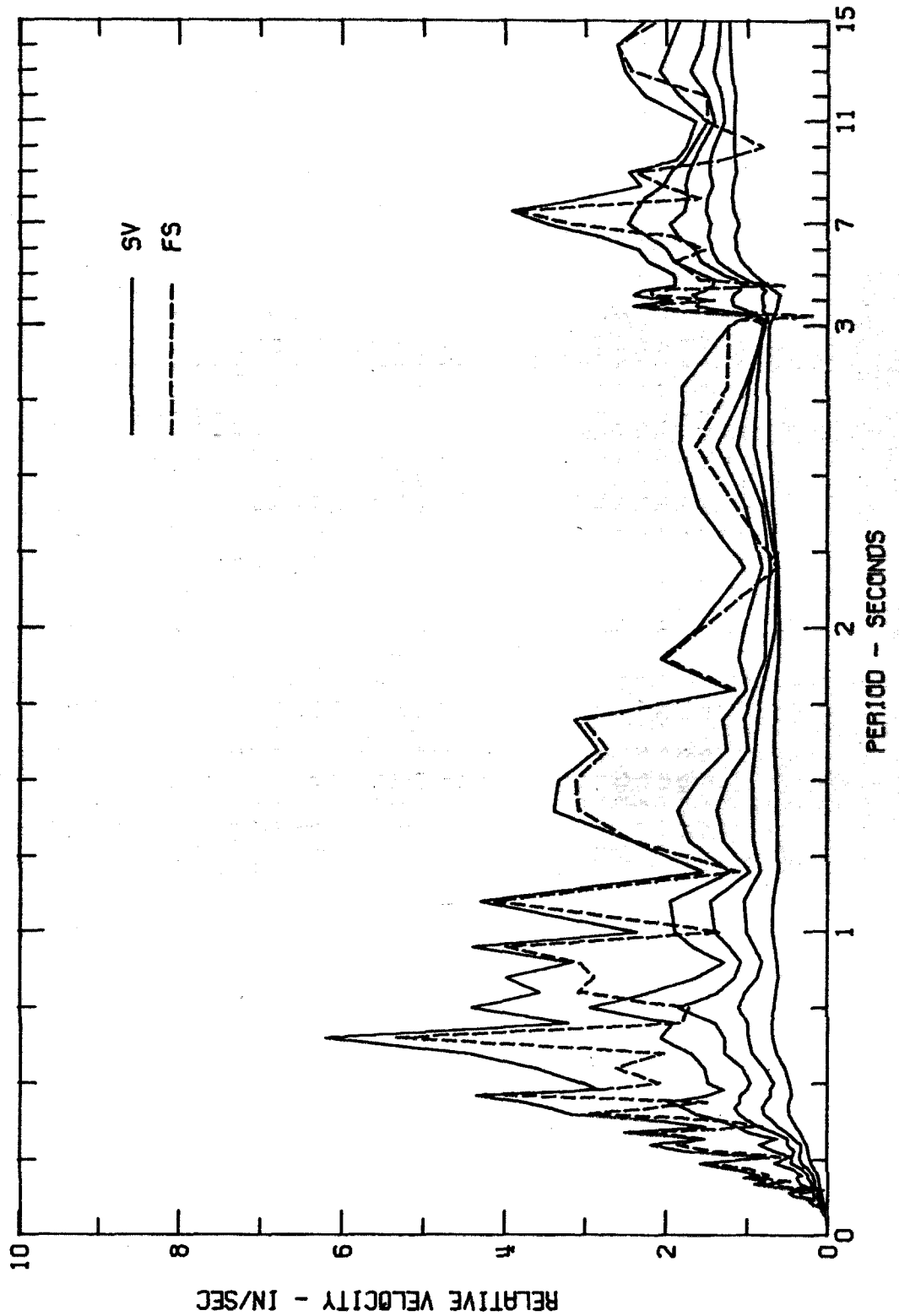
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0.80	434-2	594-3	474-2	949-4	466-2	461-3	388-2	747-4	366-2	422-3	366-2	680-4	331-2	371-3	306-2	606-4	291-2	606-4	291-2	606-4	274-3	228-2	481-4	215-2
0.85	892-2	122-2	899-2	172-3	901-2	616-3	491-2	873-4	455-2	500-3	394-2	710-4	369-2	401-3	308-2	579-4	296-2	579-4	296-2	579-4	284-3	238-2	444-4	210-2
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RELATIVE VELOCITY RESPONSE SPECTRUM

NORTHERN CALIFORNIA EARTHQUAKE DEC 18, 1967 - 0925 PST
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DAMPING VALUES ARE 0.2, 5, 10 AND 20 PERCENT OF CRITICAL

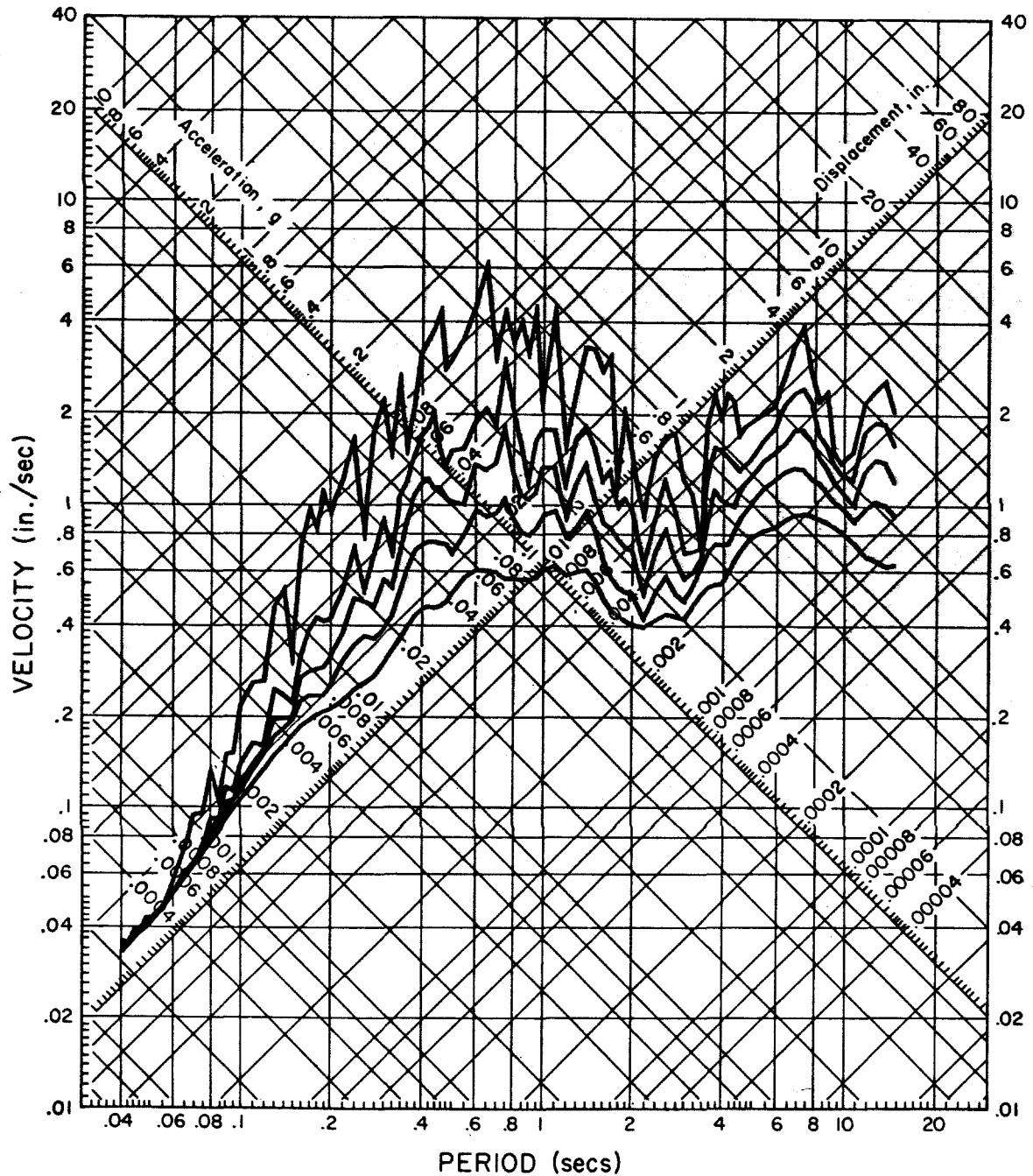


RESPONSE SPECTRUM

NORTHERN CALIFORNIA EARTHQUAKE DEC 18, 1967 - 0925 PST

IIIU313 67.006.0 PUBLIC LIBRARY, HOLLISTER, CALIFORNIA COMP N89W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



IIU313 67.006.0 PUBLIC LIBRARY, HOLLISTER, CALIFORNIA COMP N89W

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

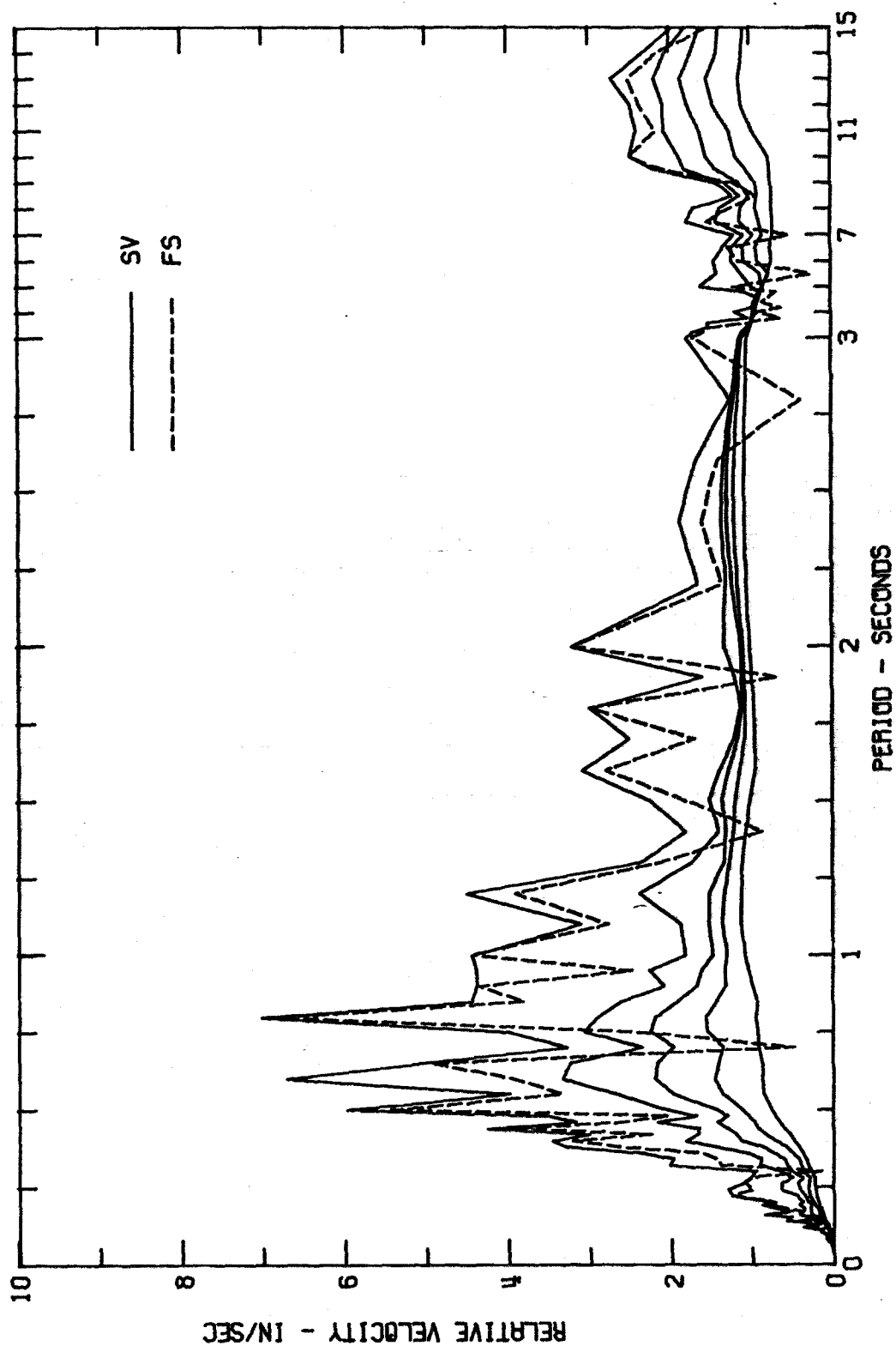
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THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	DAMPING = 0 PER CENT					DAMPING = 2 PER CENT					DAMPING = 5 PER CENT					DAMPING = 10 PER CENT					DAMPING = 20 PER CENT				
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RELATIVE VELOCITY RESPONSE SPECTRUM
NORTHERN CALIFORNIA EARTHQUAKE DEC 18, 1967 - 0925 PST
111U313 67.006.0 PUBLIC LIBRARY. HOLLISTER, CALIFORNIA COMP S01W
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

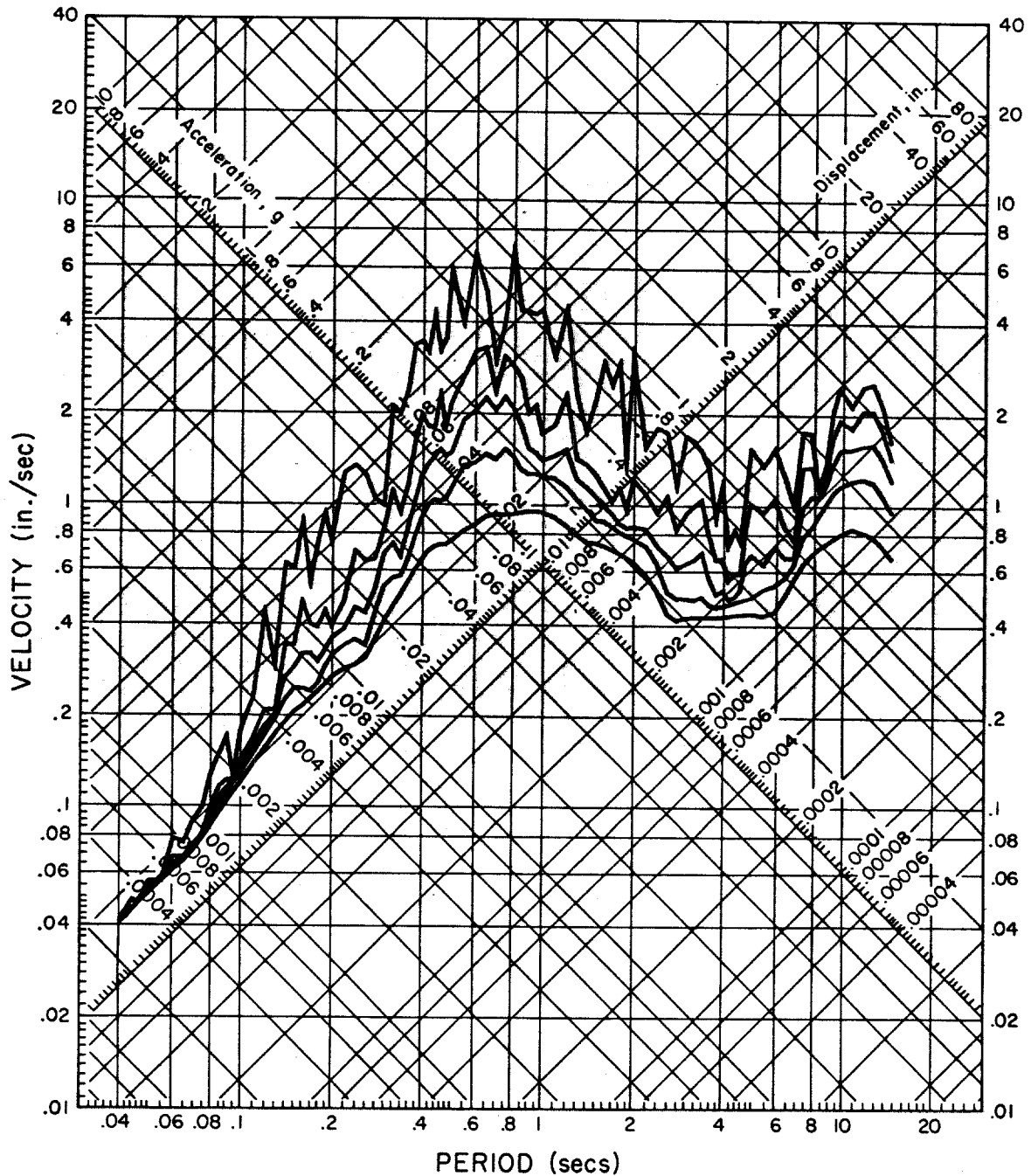


RESPONSE SPECTRUM

NORTHERN CALIFORNIA EARTHQUAKE DEC 18, 1967 - 0925 PST

IIIU313 67.006.0 PUBLIC LIBRARY, HOLLISTER, CALIFORNIA COMP S01W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



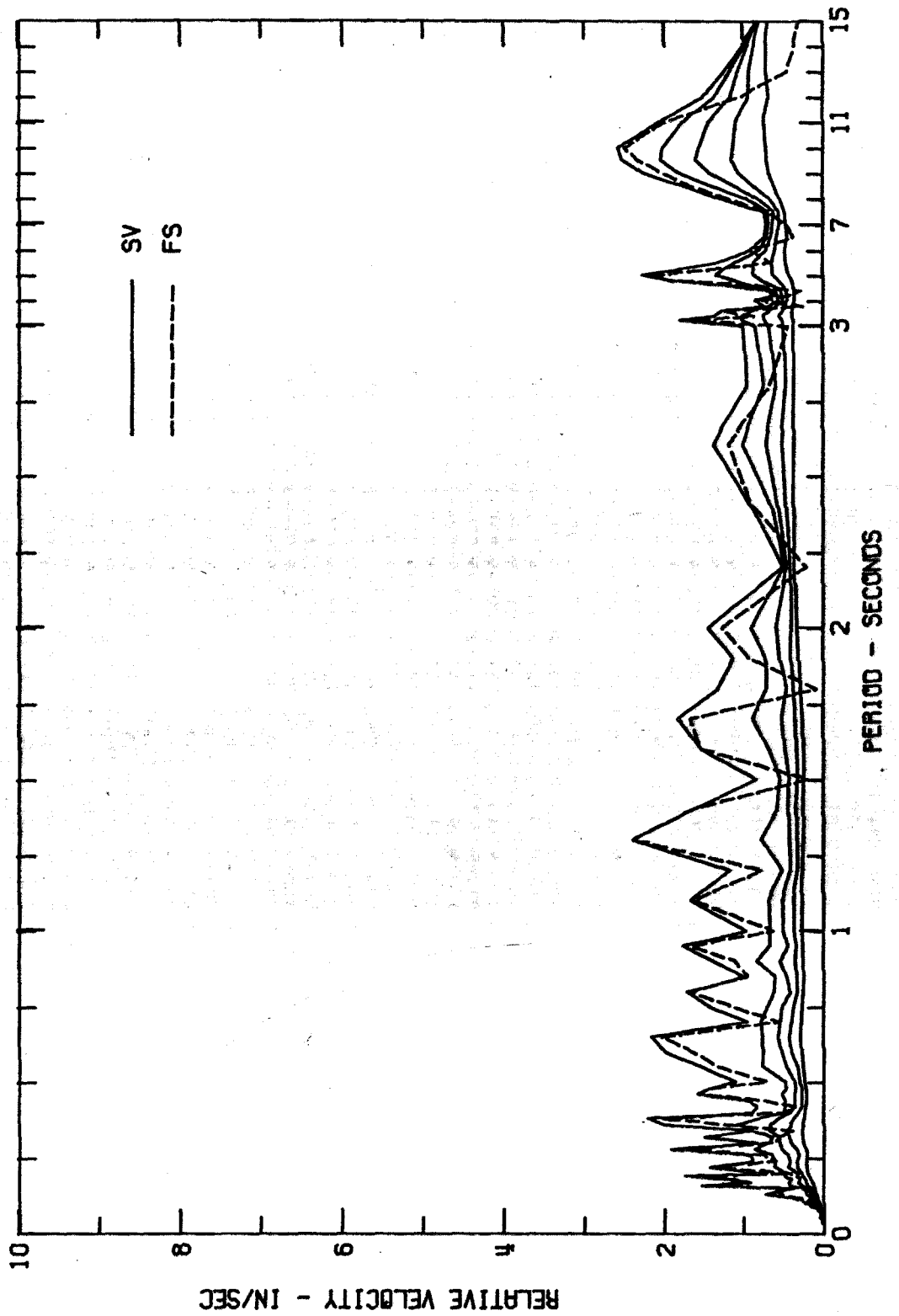
IIIU313 67.006.0 PUBLIC LIBRARY, HOLLISTER, CALIFORNIA COMP SOIW

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.75	248-2	486-3	402-2	884-4	407-2	376-3	308-2	684-4	315-2	276-3	226-2	506-4	231-2	184-3	156-2	342-4	154-2
0.80	684-2	897-3	704-2	143-3	704-2	371-3	291-2	593-4	291-2	269-3	220-2	433-4	211-2	186-3	158-2	304-4	146-2
0.85	380-2	601-3	444-2	852-4	444-2	360-3	262-2	510-4	266-2	251-3	192-2	357-4	186-2	178-3	144-2	259-4	132-2
0.90	436-2	631-3	438-2	797-4	441-2	291-3	208-2	368-4	203-2	222-3	168-2	283-4	155-2	183-3	132-2	236-4	128-2
0.95	249-2	652-3	439-2	739-4	431-2	328-3	227-2	372-4	217-2	227-3	162-2	259-4	150-2	193-3	133-2	223-4	127-2
1.00	446-2	713-3	445-2	729-4	448-2	277-3	183-2	284-4	174-2	226-3	142-2	232-4	142-2	199-3	131-2	209-4	125-2
1.10	277-2	547-3	310-2	462-4	312-2	326-3	188-2	276-4	186-2	258-3	153-2	219-4	147-2	216-3	136-2	187-4	123-2
1.20	392-2	856-3	452-2	608-4	448-2	450-3	240-2	319-4	235-2	294-3	153-2	210-4	154-2	221-3	134-2	161-4	116-2
1.30	211-2	483-3	236-2	292-4	233-2	297-3	173-2	180-4	143-2	254-3	133-2	155-4	123-2	219-3	126-2	136-4	106-2
1.40	865-3	394-3	182-2	205-4	177-2	307-3	141-2	160-4	138-2	259-3	132-2	136-4	116-2	219-3	122-2	117-4	983-3
1.50	181-2	545-3	226-2	247-4	228-2	305-3	152-2	138-4	127-2	259-3	136-2	118-4	108-2	215-3	119-2	101-4	903-3
1.60	281-2	771-3	310-2	308-4	302-2	292-3	139-2	116-4	114-2	257-3	128-2	103-4	101-2	227-3	114-2	937-5	894-3
1.70	169-2	683-3	251-2	241-4	252-2	282-3	120-2	999-5	104-2	255-3	115-2	912-5	944-3	232-3	107-2	847-5	860-3
1.80	300-2	862-3	300-2	272-4	300-2	330-3	113-2	104-4	115-2	252-3	111-2	805-5	881-3	235-3	107-2	770-5	822-3
1.90	663-3	429-3	159-2	121-4	141-2	295-3	120-2	837-5	977-3	258-3	111-2	742-5	854-3	241-3	108-2	712-5	799-3
2.00	319-2	101-2	323-2	259-4	319-2	393-3	134-2	100-4	123-2	273-3	113-2	638-5	857-3	249-3	110-2	668-5	783-3
2.20	136-2	551-3	166-2	116-4	157-2	386-3	131-2	817-5	110-2	297-3	124-2	708-5	848-3	259-3	117-2	584-5	742-3
2.40	161-2	732-3	167-2	110-4	183-2	450-3	133-2	682-5	108-2	285-3	128-2	435-5	690-3	215-3	120-2	362-5	520-3
2.60	140-2	521-3	125-2	679-5	116-2	374-3	123-2	489-5	840-3	279-3	120-2	367-5	627-3	221-3	115-2	304-5	496-3
2.80	389-3	521-3	125-2	679-5	116-2	374-3	123-2	489-5	840-3	279-3	120-2	367-5	627-3	221-3	115-2	304-5	496-3
3.00	171-2	821-3	180-2	933-5	172-2	456-3	113-2	518-5	955-3	310-3	112-2	354-5	649-3	236-3	110-2	287-5	495-3
3.20	158-2	843-3	171-2	842-5	165-2	515-3	110-2	518-5	101-2	341-3	106-2	342-5	669-3	250-3	105-2	265-5	492-3
3.40	153-2	829-3	153-2	733-5	153-2	573-3	105-2	508-5	106-2	383-3	102-2	341-5	709-3	272-3	101-2	246-5	502-3
3.60	102-2	774-3	152-2	610-5	135-2	466-3	993-3	368-5	813-3	330-3	994-3	263-5	577-3	271-3	990-3	230-5	474-3
3.80	621-3	555-3	102-2	393-5	918-3	403-3	980-3	287-5	670-3	311-3	977-3	222-5	514-3	281-3	970-3	218-5	465-3
4.00	943-3	761-3	119-2	487-5	119-2	431-3	969-3	275-5	677-3	336-3	963-3	217-5	528-3	298-3	952-3	210-5	468-3
4.20	613-3	498-3	962-3	289-5	745-3	382-3	955-3	222-5	572-3	330-3	947-3	197-5	494-3	317-3	934-3	203-5	475-3
4.40	845-3	592-3	944-3	312-5	845-3	422-3	936-3	223-5	603-3	354-3	903-3	189-5	533-3	358-3	892-3	193-5	489-3
4.60	766-3	562-3	918-3	271-5	767-3	441-3	911-3	213-5	603-3	390-3	903-3	189-5	533-3	358-3	892-3	193-5	489-3
4.80	679-3	832-3	108-2	369-5	108-2	652-3	882-3	239-5	854-3	502-3	876-3	224-5	657-3	378-3	867-3	188-5	495-3
5.00	121-2	124-2	162-2	508-5	156-2	820-3	982-3	335-5	103-2	555-3	847-3	227-5	698-3	398-3	841-3	182-5	501-3
5.50	231-3	120-2	141-2	406-5	137-2	844-3	111-2	285-5	964-3	565-3	887-3	192-5	645-3	467-3	769-3	173-5	533-3
6.00	115-2	150-2	140-2	428-5	157-2	102-2	123-2	291-5	107-2	711-3	108-2	204-5	745-3	525-3	915-3	153-5	550-3
6.50	127-2	131-2	133-2	319-5	127-2	890-3	122-2	215-5	860-3	707-3	109-2	176-5	683-3	607-3	936-3	149-5	587-3
7.00	490-3	112-2	119-2	235-5	101-2	865-3	107-2	181-5	776-3	763-3	955-3	160-5	685-3	726-3	842-3	154-5	652-3
7.50	153-2	213-2	179-2	387-5	178-2	161-2	142-2	294-5	135-2	119-2	112-2	219-5	100-2	955-3	888-3	175-5	800-3
8.00	124-2	224-2	170-2	358-5	176-2	173-2	137-2	277-5	136-2	138-2	111-2	222-5	108-2	109-2	936-3	180-5	863-3
8.50	927-3	157-2	121-2	222-5	116-2	155-2	112-2	220-5	114-2	146-2	101-2	208-5	108-2	128-2	912-3	186-5	950-3
9.00	121-2	202-2	142-2	255-5	141-2	186-2	132-2	235-5	130-2	172-2	113-2	218-5	120-2	149-2	936-3	193-5	104-2
9.50	209-2	317-2	219-2	359-5	210-2	250-2	181-2	294-5	171-2	211-2	142-2	241-5	139-2	170-2	104-2	199-5	112-2
10.00	249-2	396-2	249-2	405-5	249-2	310-2	188-2	317-5	195-2	247-2	154-2	253-5	155-2	187-2	117-2	195-5	117-2
11.00	217-2	380-2	241-2	321-5	217-2	321-2	207-2	271-5	183-2	273-2	163-2	232-5	156-2	214-2	126-2	186-5	122-2
12.00	237-2	480-2	248-2	341-5	251-2	393-2	207-2	283-5	209-2	305-2	177-2	218-5	160-2	237-2	145-2	172-5	124-2
13.00	251-2	533-2	272-2	322-5	257-2	431-2	219-2	261-5	208-2	334-2	187-2	203-5	161-2	250-2	154-2	156-5	121-2
14.00	214-2	480-2	232-2	250-5	215-2	398-2	204-2	208-5	178-2	320-2	172-2	168-5	143-2	241-2	140-2	129-5	108-2
15.00	149-2	393-2	195-2	178-5	164-2	346-2	180-2	157-5	145-2	292-2	161-2	134-5	122-2	230-2	138-2	108-5	966-3

DAMPING = 0 PER CENT DAMPING = 2 PER CENT DAMPING = 5 PER CENT DAMPING = 10 PER CENT DAMPING = 20 PER CENT

RELATIVE VELOCITY RESPONSE SPECTRUM
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DAMPING VALUES ARE 0.2, 5, 10 AND 20 PERCENT OF CRITICAL

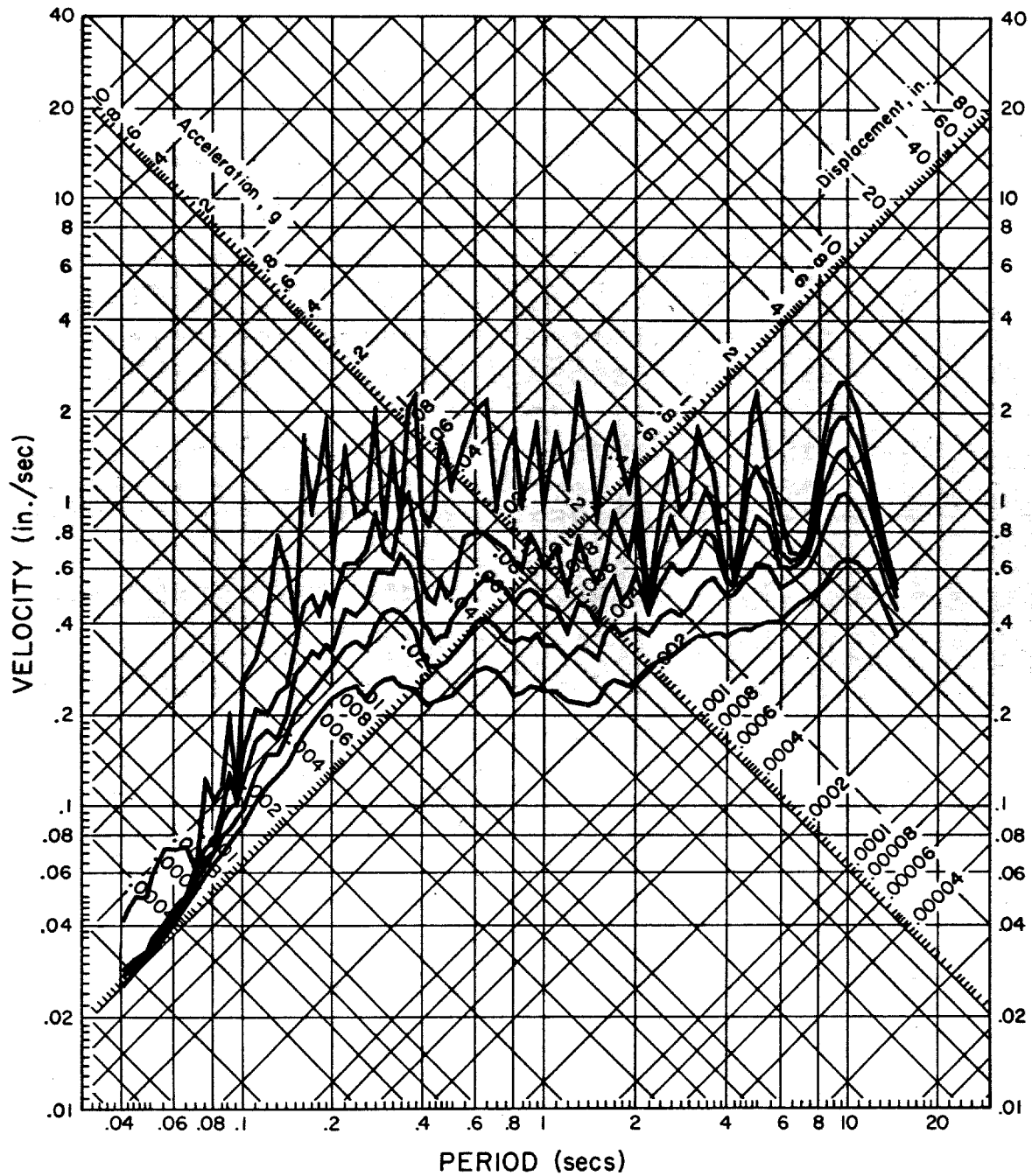


RESPONSE SPECTRUM

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DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



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THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT										DAMPING = 5 PER CENT										DAMPING = 10 PER CENT										DAMPING = 20 PER CENT									
PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV						
0.040	171-4	264-6	220-4	169-4	416-4	180-6	172-4	114-4	283-4	172-6	153-4	108-4	270-4	160-6	134-4	103-4	252-4	161-6	119-4	103-4	253-4	161-6	119-4	103-4	253-4	161-6	119-4	103-4	252-4	161-6	119-4	103-4	253-4						
0.042	214-4	309-6	273-4	179-4	462-4	199-6	182-4	115-4	298-4	190-6	161-4	109-4	284-4	178-6	139-4	103-4	266-4	178-6	123-4	103-4	267-4	178-6	123-4	103-4	267-4	178-6	123-4	103-4	266-4	178-6	123-4	103-4	267-4						
0.044	251-4	348-6	300-4	183-4	497-4	216-6	195-4	114-4	309-4	207-6	173-4	109-4	293-4	197-6	143-4	104-4	281-4	196-6	128-4	104-4	281-4	196-6	128-4	104-4	281-4	196-6	128-4	104-4	281-4	196-6	128-4	104-4	281-4						
0.046	147-4	360-6	273-4	174-4	492-4	233-6	201-4	113-4	318-4	222-6	180-4	108-4	304-4	217-6	149-4	105-4	297-4	216-6	132-4	105-4	295-4	216-6	132-4	105-4	295-4	216-6	132-4	105-4	297-4	216-6	132-4	105-4	295-4						
0.048	151-4	379-6	266-4	168-4	497-4	250-6	214-4	110-4	327-4	239-6	190-4	107-4	314-4	238-6	157-4	106-4	312-4	236-6	135-4	106-4	309-4	236-6	135-4	106-4	309-4	236-6	135-4	106-4	312-4	236-6	135-4	106-4	309-4						
0.050	279-4	467-6	380-4	191-4	586-4	288-6	223-4	118-4	362-4	271-6	199-4	110-4	340-4	264-6	166-4	108-4	332-4	258-6	145-4	108-4	324-4	258-6	145-4	108-4	324-4	258-6	145-4	108-4	332-4	258-6	145-4	108-4	324-4						
0.055	470-4	626-6	513-4	211-4	716-4	356-6	253-4	120-4	407-4	336-6	225-4	114-4	384-4	331-6	188-4	112-4	378-4	323-6	157-4	110-4	369-4	323-6	157-4	110-4	369-4	323-6	157-4	110-4	378-4	323-6	157-4	110-4	369-4						
0.060	323-4	680-6	397-4	193-4	712-4	444-6	278-4	126-4	465-4	411-6	248-4	117-4	431-4	408-6	207-4	116-4	427-4	398-6	166-4	114-4	417-4	398-6	166-4	114-4	417-4	398-6	166-4	116-4	427-4	398-6	166-4	114-4	417-4						
0.065	518-4	752-6	576-4	182-4	727-4	523-6	304-4	126-4	505-4	526-6	274-4	127-4	508-4	511-6	231-4	124-4	494-4	486-6	183-4	119-4	470-4	486-6	183-4	119-4	470-4	486-6	183-4	124-4	494-4	486-6	183-4	119-4	470-4						
0.070	243-4	669-6	398-4	139-4	600-4	715-6	336-4	149-4	642-4	684-6	301-4	142-4	614-4	637-6	253-4	133-4	571-4	587-6	216-4	125-4	527-4	587-6	216-4	125-4	527-4	587-6	216-4	133-4	571-4	587-6	216-4	125-4	527-4						
0.075	349-4	144-5	891-4	262-4	120-3	863-6	397-4	157-4	723-4	792-6	338-4	145-4	663-4	755-6	287-4	138-4	632-4	700-6	262-4	129-4	587-4	700-6	262-4	129-4	587-4	700-6	262-4	138-4	632-4	700-6	262-4	129-4	587-4						
0.080	722-4	131-5	792-4	209-4	102-3	971-6	496-4	155-4	763-4	898-6	420-4	144-4	706-4	896-6	369-4	142-4	704-4	818-6	314-4	132-4	643-4	818-6	314-4	132-4	643-4	818-6	314-4	144-4	706-4	896-6	369-4	142-4	704-4						
0.085	925-4	156-5	959-4	221-4	115-3	129-5	627-4	183-4	956-4	119-5	528-4	169-4	886-4	106-5	458-4	152-4	788-4	937-6	363-4	137-4	693-4	937-6	363-4	137-4	693-4	937-6	363-4	169-4	886-4	106-5	458-4	152-4	788-4						
0.090	179-3	275-5	186-3	347-4	192-3	180-5	977-4	228-4	125-3	140-5	672-4	176-4	978-4	119-5	526-4	152-4	833-4	107-5	415-4	140-4	752-4	107-5	415-4	140-4	752-4	107-5	415-4	176-4	978-4	119-5	526-4	152-4	833-4						
0.095	531-4	169-5	939-4	192-4	112-3	154-5	774-4	175-4	102-3	153-5	757-4	173-4	101-3	136-5	625-4	154-4	900-4	122-5	466-4	143-4	809-4	122-5	466-4	143-4	809-4	122-5	466-4	173-4	101-3	136-5	625-4	154-4	900-4						
0.100	240-3	537-5	255-3	430-4	264-3	339-5	128-3	245-4	150-3	191-5	976-4	197-4	120-3	154-5	724-4	162-4	969-4	136-5	506-4	146-4	860-4	136-5	506-4	146-4	860-4	136-5	506-4	197-4	120-3	154-5	724-4	162-4	969-4						
0.110	170-3	537-5	279-3	454-4	307-3	365-5	165-3	308-4	209-3	286-5	118-3	241-4	163-3	223-5	827-4	192-4	127-3	179-5	602-4	158-4	102-3	179-5	602-4	158-4	102-3	179-5	602-4	241-4	163-3	223-5	827-4	192-4	127-3						
0.120	331-3	811-5	293-3	576-4	424-3	382-5	173-3	272-4	200-3	339-5	144-3	242-4	177-3	280-5	108-3	201-4	147-3	220-5	742-4	161-4	115-3	220-5	742-4	161-4	115-3	220-5	742-4	177-3	280-5	108-3	201-4	147-3	220-5						
0.130	534-3	157-4	730-3	955-4	762-3	488-5	218-3	294-4	236-3	343-5	155-3	209-4	166-3	303-5	117-3	185-4	146-3	259-5	872-4	165-4	125-3	259-5	872-4	165-4	125-3	259-5	872-4	955-4	762-3	488-5	218-3	294-4							
0.140	580-3	135-4	587-3	707-4	608-3	554-5	224-3	287-4	248-3	444-5	173-3	231-4	199-3	378-5	130-3	200-4	169-3	303-5	100-3	136-4	136-3	303-5	100-3	136-4	136-3	303-5	100-3	707-4	608-3	554-5	224-3	287-4							
0.150	374-3	961-5	389-3	436-4	402-3	811-5	274-3	368-4	340-3	650-5	212-3	297-4	272-3	492-5	158-3	228-4	206-3	370-5	113-3	173-4	155-3	370-5	113-3	173-4	155-3	370-5	113-3	436-4	402-3	811-5	274-3	368-4							
0.160	136-2	398-4	154-2	159-3	156-2	118-4	425-3	471-4	463-3	749-5	273-3	302-4	294-3	570-5	199-3	231-4	223-3	440-5	128-3	182-4	173-3	440-5	128-3	182-4	173-3	440-5	128-3	159-3	156-2	118-4	425-3	471-4							
0.170	910-3	255-4	931-3	903-4	943-3	133-4	442-3	472-4	491-3	872-5	321-3	308-4	322-3	644-5	225-3	234-4	238-3	507-5	145-3	186-4	187-3	507-5	145-3	186-4	187-3	507-5	145-3	903-4	943-3	133-4	442-3	472-4							
0.180	119-2	361-4	122-2	114-3	126-2	122-4	412-3	389-4	428-3	889-5	308-3	282-4	310-3	735-5	230-3	234-4	256-3	580-5	166-3	191-4	202-3	580-5	166-3	191-4	202-3	580-5	166-3	114-3	126-2	122-4	412-3	389-4							
0.190	158-2	545-4	175-2	154-3	180-2	152-4	499-3	433-4	504-3	102-4	330-3	295-4	339-3	829-5	261-3	240-4	274-3	653-5	187-3	193-4	215-3	653-5	187-3	193-4	215-3	653-5	187-3	154-3	180-2	152-4	499-3	433-4							
0.200	404-3	213-4	700-3	545-4	669-3	145-4	469-3	372-4	455-3	104-4	316-3	270-4	329-3	928-5	278-3	237-4	291-3	725-5	200-3	189-4	227-3	928-5	278-3	237-4	291-3	725-5	200-3	213-4	700-3	545-4	669-3	145-4							
0.220	138-2	522-4	144-2	110-3	149-2	220-4	623-3	470-4	630-3	155-4	455-3	326-4	444-3	116-4	337-3	255-4	333-3	845-5	225-3	193-4	241-3	845-5	225-3	193-4	241-3	845-5	225-3	110-3	149-2	220-4	623-3	470-4							
0.240	598-3	341-4	886-3	606-4	893-3	241-4	611-3	428-4	631-3	162-4	429-3	294-4	424-3	133-4	348-3	243-4	348-3	946-5	225-3	176-4	224-3	946-5	225-3	176-4	224-3	946-5	225-3	341-4	886-3	606-4	893-3	241-4							
0.260	757-3	388-4	914-3	587-4	938-3	288-4	656-3	435-4	696-3	191-4	456-3	324-4	462-3	135-4	312-3	203-4	328-3	929-5	214-3	157-4	224-3	929-5	214-3	157-4	224-3	929-5	214-3	587-4	938-3	288-4	656-3	435-4							
0.280	184-2	862-4	193-2	112-3	193-2	407-4	871-3	532-4	914-3	261-4	535-3	342-4	587-3	174-4	347-3	234-4	391-3	110-4	221-3	155-4	248-3	110-4	221-3	155-4	248-3														

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	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.75	113-2	175-3	144-2	318-4	146-2	843-4	703-3	153-4	707-3	617-4	524-3	112-4	517-3	423-4	382-3	789-5	354-3	306-4	279-3	614-5	256-3
0.80	168-2	221-3	172-2	353-4	173-2	813-4	625-3	130-4	638-3	591-4	420-3	948-5	464-3	439-4	333-3	716-5	345-3	294-4	269-3	528-5	231-3
0.85	953-3	134-3	100-2	190-4	995-3	808-4	612-3	114-4	598-3	680-4	470-3	969-5	503-3	486-4	344-3	700-5	359-3	320-4	256-3	511-5	237-3
0.90	110-2	196-3	138-2	247-4	136-2	113-3	832-3	143-4	791-3	740-4	542-3	939-5	517-3	504-4	352-3	658-5	352-3	354-4	253-3	511-5	247-3
0.95	167-2	269-3	177-2	305-4	178-2	107-3	674-3	121-4	711-3	761-4	444-3	869-5	503-3	556-4	345-3	653-5	368-3	370-4	261-3	489-5	245-3
1.00	630-3	153-3	967-3	157-4	967-3	973-4	672-3	995-5	611-3	733-4	512-3	755-5	460-3	538-4	376-3	574-5	338-3	382-4	272-3	450-5	240-3
1.10	164-2	294-3	168-2	248-4	168-2	123-3	694-3	104-4	703-3	775-4	524-3	660-5	442-3	588-4	381-3	510-5	336-3	417-4	276-3	386-5	238-3
1.20	756-3	217-3	116-2	154-4	114-2	964-4	518-3	684-5	504-3	714-4	412-3	509-5	373-3	586-4	328-3	421-5	306-3	424-4	266-3	336-5	222-3
1.30	241-2	500-3	241-2	303-4	242-2	158-3	785-3	956-5	763-3	965-4	439-3	587-5	466-3	694-4	330-3	427-5	335-3	453-4	258-3	292-5	219-3
1.40	163-2	363-3	163-2	189-4	163-2	134-3	574-3	705-5	605-3	100-3	441-3	528-5	452-3	720-4	342-3	383-5	323-3	481-4	255-3	282-5	216-3
1.50	180-3	217-3	837-3	987-5	909-3	130-3	691-3	676-5	664-3	130-3	495-3	522-5	510-3	951-4	347-3	387-5	373-3	637-4	255-3	278-5	250-3
1.60	154-2	393-3	154-2	157-4	154-2	169-3	882-3	883-5	922-3	154-3	520-3	429-5	473-3	106-3	354-3	386-5	392-3	705-4	265-3	277-5	260-3
1.70	167-2	494-3	183-2	174-4	182-2	249-3	718-3	702-5	776-3	135-3	468-3	429-5	473-3	104-3	383-3	336-5	366-3	733-4	293-3	260-5	255-3
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1.90	917-3	330-3	112-2	936-5	109-2	206-3	729-3	585-5	683-3	155-3	559-3	440-5	512-3	114-3	411-3	329-5	379-3	755-4	318-3	239-5	249-3
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2.40	885-3	343-3	907-3	610-5	900-3	259-3	651-3	460-5	678-3	207-3	574-3	372-5	543-3	160-3	471-3	292-5	420-3	115-3	375-3	229-5	303-3
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2.80	675-3	416-3	957-3	542-5	933-3	324-3	852-3	426-5	785-3	292-3	683-3	394-5	629-3	183-3	525-3	281-5	443-3	129-3	375-3	209-5	312-3
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3.40	855-3	778-3	135-2	688-5	143-2	601-3	993-3	532-5	111-2	437-3	756-3	388-5	807-3	297-3	556-3	269-5	549-3	196-3	396-3	198-5	363-3
3.60	126-2	726-3	126-2	573-5	126-2	561-3	887-3	443-5	980-3	442-3	585-3	351-5	772-3	324-3	515-3	263-5	569-3	213-3	394-3	182-5	372-3
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4.00	760-3	554-3	855-3	354-5	870-3	357-3	564-3	228-5	561-3	347-3	500-3	222-5	546-3	311-3	451-3	200-5	489-3	230-3	361-3	169-5	362-3
4.20	456-3	389-3	608-3	225-5	582-3	360-3	572-3	209-5	538-3	358-3	522-3	208-5	535-3	332-3	449-3	195-5	497-3	250-3	363-3	157-5	374-3
4.40	281-3	524-3	699-3	277-5	749-3	474-3	600-3	250-5	677-3	431-3	539-3	229-5	616-3	369-3	473-3	199-5	527-3	268-3	369-3	151-5	383-3
4.60	809-3	904-3	117-2	437-5	123-2	701-3	906-3	330-5	957-3	524-3	649-3	255-5	716-3	407-3	507-3	202-5	557-3	281-3	382-3	142-5	385-3
4.80	195-2	148-2	195-2	661-5	195-2	924-3	114-2	410-5	121-2	611-3	791-3	272-5	800-3	439-3	579-3	198-5	575-3	292-3	406-3	142-5	383-3
5.00	214-2	182-2	228-2	747-5	229-2	104-2	135-2	427-5	131-2	719-3	871-3	295-5	903-3	502-3	637-3	209-5	631-3	312-3	433-3	137-5	393-3
5.50	652-3	113-2	129-2	384-5	130-2	937-3	109-2	317-5	107-2	735-3	866-3	249-5	839-3	539-3	647-3	185-5	616-3	356-3	479-3	131-5	407-3
6.00	919-3	877-3	918-3	249-5	918-3	660-3	799-3	187-5	692-3	589-3	715-3	168-5	617-3	500-3	601-3	144-5	523-3	389-3	481-3	121-5	407-3
6.50	376-3	709-3	736-3	171-5	685-3	666-3	703-3	161-5	644-3	630-3	658-3	153-5	609-3	568-3	585-3	140-5	549-3	458-3	453-3	120-5	443-3
7.00	455-3	754-3	715-3	157-5	676-3	740-3	685-3	154-5	664-3	709-3	637-3	149-5	636-3	647-3	556-3	137-5	581-3	524-3	473-3	118-5	470-3
7.50	707-3	923-3	748-3	167-5	773-3	886-3	692-3	161-5	742-3	829-3	626-3	151-5	695-3	739-3	569-3	138-5	619-3	584-3	497-3	116-5	490-3
8.00	119-2	152-2	130-2	243-5	119-2	123-2	976-3	191-5	968-3	108-2	831-3	174-5	855-3	894-3	681-3	146-5	702-3	660-3	556-3	114-5	519-3
8.50	167-2	231-2	175-2	327-5	170-2	193-2	139-2	274-5	142-2	155-2	111-2	221-5	114-2	112-2	873-3	163-5	829-3	741-3	617-3	117-5	548-3
9.00	201-2	319-2	227-2	403-5	223-2	252-2	182-2	319-5	176-2	192-2	143-2	243-5	134-2	137-2	106-2	176-5	956-3	862-3	682-3	118-5	601-3
9.50	234-2	377-2	254-2	427-5	249-2	289-2	205-2	328-5	191-2	222-2	161-2	252-5	146-2	159-2	115-2	184-5	105-2	965-3	712-3	121-5	638-3
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11.00	201-2	353-2	209-2	298-5	201-2	278-2	178-2	233-5	158-2	219-2	145-2	187-5	125-2	166-2	110-2	146-5	952-3	111-2	753-3	108-5	638-3
12.00	105-2	263-2	151-2	187-5	138-2	232-2	136-2	165-5	121-2	195-2	116-2	140-5	102-2	153-2	938-3	111-5	802-3	109-2	683-3	906-6	575-3
13.00	462-3	193-2	124-2	116-5	934-3	177-2	117-2	107-5	858-3	158-2	107-2	966-6	766-3	135-2	938-3	864-6	655-3	104-2	725-3	728-6	503-3
14.00	370-3	151-2	102-2	788-6	678-3	142-2	999-3	745-6	639-3	130-2	953-3	690-6	587-3	114-2	873-3	637-6	512-3	948-3	723-3	586-6	425-3
15.00	303-3	129-2	839-3	590-6	544-3	124-2	837-3	566-6	521-3	117-2	826-3	543-6	490-3	106-2	791-3	520-6	445-3	876-3	699-3	493-6	366-3

California Institute of Technology
Earthquake Engineering Research Laboratory

The following reports of the Earthquake Engineering Research Laboratory from 1970 on can be obtained from the National Technical Information Service, Springfield, Virginia 22121:

Strong-Motion Earthquake Accelerograms
Digitized and Plotted Data
Volume I

<u>Part</u>	<u>Report No.</u>	<u>NTIS Accession No.</u>
A	EERL 70-20	PB-287 847
B	EERL 70-21	PB-196 823
C	EERL 71-20	PB-204 364
D	EERL 71-21	PB-208 529
E	EERL 71-22	PB-209 749
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G	EERL 72-20	PB-211 357
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O	EERL 73-20	PB-222 417
P	EERL 73-21	PB-227 481/AS
Q	EERL 73-22	PB-232 315/AS

Strong-Motion Earthquake Accelerograms
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Corrected Accelerograms and Integrated
Ground Velocity and Displacement Curves

Volume II

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A	EERL 71-50	PB-208 283
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E	EERL 73-50	PB-223 024
F	EERL 73-51	PB-224 977/9AS
G	EERL 73-52	PB-229 239/AS
H	EERL 74-50	PB-231 225/AS
I	EERL 74-51	PB-232 316/AS
J, K	EERL 74-52	PB-233 257/AS
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N	EERL 74-54	PB-236 399/AS

Analyses of Strong-Motion Earthquake Accelerograms
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Volume III

<u>Part</u>	<u>Report No.</u>	<u>NTIS Accession No.</u>
A	EERL 72-80	PB-212 602
B	EERL 73-80	PB-221 256
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F	EERL 73-84	PB-227 471/AS
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Analyses of Strong-Motion Earthquake Accelerograms
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Volume IV

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A	EERL 72-100	PB-212 603
B	EERL 73-100	PB-220 837
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E	EERL 73-103	PB-229 240/AS
F	EERL 73-104	PB-229 241/AS
G	EERL 73-105	PB-231 224/AS
H	EERL 74-100	PB-232 327/AS
I	EERL 74-101	PB-232 328/AS
J, K, L, M	EERL 74-102	PB-236 111/AS
N, O, P	EERL 74-103	PB-238 447/AS

Strong-Motion Instrumental Data on the San Fernando Earthquake of February 9, 1971, (PB-204 198)

P. C. Jennings, et al, Forced Vibration of a 22-Story Steel Frame Building (EERL 71-01; PB-205 161)

P. C. Jennings, ed., Engineering Features of the San Fernando Earthquake (EERL 71-02; PB-202 550)

Randolph A. Adu, Response and Failure of Structures under Stationary Random Excitation (EERL 71-02; PB-205 304)

Jacobo Bielak, Earthquake Response of Building-Foundation Systems (EERL 71-04; PB-205 305)

M. D. Trifunac, F. E. Udwadia, A. G. Brady, High Frequency Errors and Instrument Corrections of Strong-Motion Accelerograms (EERL 71-05; PB-205 369)

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